## МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

Державний біотехнологічний університет

## «QUANTUM ENGLISH» («КВАНТОВА АНГЛІЙСЬКА»)

методичні рекомендації з англійської мови для студентів 4 курсу спеціальностей 123 — Комп'ютерна інженерія, 125 — Кібербезпека та захист інформації та 151 — Автоматизація та комп'ютерно-інтегровані технології

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#### INTRODUCTION

Dear Students,

welcome to the world of Quantum English! We are happy to see you here and look forward to hearing about all the ways that this course impacts your online classrooms and educational contexts. We look forward to virtually connecting and working with you all and helping you prepare for your educational course and Unified Entrance Exam. The format of your study is not asynchronous. This means there are required meeting dates when you must be online following your timetable. But you have more flexibility to complete work at a time that fits your schedule.

In this course, you will complete ten modules – the quants of your success as a student, participant of a state examination process and English-speaking professional in your field of study. Also, the textbook will give you basic information about progressive technologies, computers and automation, and familiarize you with cybersecurity. This information is intended to provide context and help you better understand the features of the program and the professional development opportunities. All modules will give you information about what is expected of you during the course of English, and what you can expect of your exam.

But why did we call this English language textbook Quantum? Let's think about it together.

Quantum is the boundary between a world that is subject to time and a world where time does not exist.

From the Internet, we absorbed the fact that the adjective "quantum" is used only when we are talking about the field of physics, chemistry, higher mathematics or programming. Therefore, to see it next to the vocabulary and grammar of the English language, and even more so to connect these concepts with each other, is a big surprise. However, if we dive into the amazing world of human language, we can make no fewer discoveries than in the field of other sciences.

Language has a lot in common with mathematics: it also has formulas; and sounds, words, phrases and sentences subject to their strict laws. First, there was a word. Everything that surrounds us is one big text. Our consciousness changes the universe. "According to modern ideas, any physical system is quantum, including the universe," scientists say.

Knowledge is part of human mentality. People agreed that the apple is round and the grass is green. Without human consciousness, these concepts do not exist. Moreover, each individual perceives the world in his own way. The most distinctive feature of quantum theory is the interference of probabilities. According to quantum

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theory, the acquisition of quantum information is difficult since quantum measurement destroys the quantum state of a system<sup>2</sup>. Do you remember the experiment with the interference image of a cat? No matter how physicists tried to convey the picture, as a result, it came out different every time. The same thing happens when one person transfers information from the "library" in his mind to another person through language. The teacher and textbooks provide knowledge, but this does not mean that the same picture of the world will form in the student's imagination.

Like language, knowledge is always individual. Knowledge is the answers given by the surrounding world. But there are no answers without questions and the ability to ask them correctly. To paraphrase an ancient wisdom, a teacher can only give you what you already have. What you do not have, the teacher cannot give you. Your reality is where your attention is directed. Study for yourself and your development, and you will understand that learning is not a horror movie, but an exciting blockbuster, full of unexpected storylines and interesting discoveries.

Engagement and motivation are the key driving forces for the whole Universe. For both, student and teacher, they make the educational process successful, rich, and full of life. Wars and other unexpected situations have arisen globally throughout the history of mankind; they are not only in Ukraine — they are everywhere. But even if a tree is broken it continues to be the tree. Teachers and students grow as they help each other to overcome difficulties. It makes us humans, parts of everything.

<sup>-</sup>

<sup>&</sup>lt;sup>2</sup> https://www.cambridge.org/gb/cambridgeenglish/better-learning-insights/corpus

#### ENGLISH LANGUAGE LEVEL TEST – GRAMMAR AND VOCABULARY

This placement test includes a total of one hundred multiple-choice items: 50 grammar and 50 vocabulary questions, which are arranged to become progressively more difficult. You should complete the test independently without the help of any kind in 60 minutes or less. The scores after doing these series of quick tests will give you a rough idea of your level of English on a scale from 0 to 100.

Choose the best word or phrase to complete each sentence or question:

#### **GRAMMAR**

| 1. Kate from     | Germany.             |               |                  |
|------------------|----------------------|---------------|------------------|
| a. is            | b. are               | c. am         | d. be            |
| 2. What's nar    | ne?                  |               |                  |
| a. you           | b. your              | c. you're     | d. the           |
| 3. Mark in Lo    | ondon.               |               |                  |
| a. is work       | b. work              | c. working    | d. works         |
| 4. Where?        |                      |               |                  |
| a. live you      | b. do you live       | c. you live   | d. does you live |
| 5. I rain.       |                      |               |                  |
| a. not like      | b. like not          | c. no like    | d. don't like    |
| 6. Katrina doesr | n't like in the morn | ing.          |                  |
| a. to getting up | b. get up            | c. getting up | d. gets up       |
| 7. Tim can't     | very well.           |               |                  |
| م ده طینیه       | 1. 1                 | . 1           | 1 1              |

8. What ... at the moment? b. are you doing c. do you do d. you are doing a. you do 9. You are ... than me. a. tallest b. more tall c. taller d. tall 10. I ... you yesterday. a. calling b. call c. have called d. called 11. Oliver is interested ... art. d. to a. in b. on c. at 12. She ... anyone at the park last night. d. wasn't seeing a. didn't see b. didn't saw c. saw not 13. A dog is an animal ... walks on four legs. a. who b. which d. whose c. what 14. This is ... cake in the shop.

| a. the expensiver | b. the expensivest | c.   | the   | most | d.  | the     | more |
|-------------------|--------------------|------|-------|------|-----|---------|------|
|                   |                    | expe | nsive |      | exp | pensive |      |

15. ... meet Paolo for lunch tomorrow.

| a. I'm to | b. I go to | c. I going to | d. I'm going to |
|-----------|------------|---------------|-----------------|

16. ... to close the door when you left the house?

| a.  | Have    | you | b.   | Did   | you | c.  | Remembered | d. Remember you |
|-----|---------|-----|------|-------|-----|-----|------------|-----------------|
| rem | embered |     | reme | ember |     | you |            |                 |

17. My mother ... all our old toys and books after we moved away. a. kept b. keeped c. keeps d. keept 18. I'm afraid I can't meet you tomorrow. ... lunch with an old friend. d. I've had b. I will have a. I have c. I'm having 19. "... sushi before?" "Yes, many times." a. Have you ever b. Did you ever ate d. Do you ever eat c. Are you ever eating eaten 20. When ... here, I'll tell you everything. a. you'll get d. you're getting b. you get c. you got 21. I ... a really funny Youtube video when you called me. a. am watching b. watched c. have watched d. was watching 22. Would you mind ... me a little later? d. calling a. to call b. to calling c. you call 23. What ... if you won the lottery? b. will you do c. would you do d. did you do a. do you do 24. I need to ... for the party on Saturday. Do you know a good hairdresser? b. have my hair cut | c. have cut my hair | d. cut it my hair a. cut my hair 25. I really need ... onions for this recipe. Put them on the shopping list. c. lots of a. many b. much d. any

26. Michael works for BP and ...

| a. me too   | b. also I do                                      | c. me neither                                | d. I do too         |  |  |  |
|---|---|--|---------------------|--|--|--|
| 27. Bottles made out of glass.  |   |  |                     |  |  |  |
| a. be   | b. are  | c. is  | d. have             |  |  |  |
| 28. Please can y  | you say that again? I'                            | m afraid that I you                          |                     |  |  |  |
| a. am not understanding   | b. was not understanding                          | c. don't understand                          | d. won't understand |  |  |  |
| 29. I put a sand  | wich in your bag y                                | ou won't have to buy                         | lunch.              |  |  |  |
| a. because  | b. so   | c. although                                  | d. therefore        |  |  |  |
| 30. We can't af   | ford on holiday so                                | we're staying home t                         | this year.          |  |  |  |
| a to go   | b. going  | C WA GO                                      | d. that we go       |  |  |  |
| a. to go  | o. going  | c. we go                                     | u. mai we go        |  |  |  |
|   | uy uncle lives next                               |  | d. that we go       |  |  |  |
|   |   |  | d. whose            |  |  |  |
| 31. That's the g  | uy uncle lives next                               | c. that                                      |                     |  |  |  |
| 31. That's the g  | uy uncle lives next                               | c. that                                      |                     |  |  |  |
| 31. That's the g a. who 32. Isn't this the                              | b. which club you met you b. what                 | t door to me.  c. that r girlfriend?         | d. whose            |  |  |  |
| 31. That's the g  a. who  32. Isn't this the  a. that                   | b. which club you met you b. what                 | t door to me.  c. that r girlfriend?         | d. whose            |  |  |  |
| 31. That's the g  a. who  32. Isn't this the  a. that  33. I regret the | b. which club you met you b. what e purple dress. | c. that r girlfriend? c. where c. to not buy | d. whose            |  |  |  |

35. Joe told me that ... for over an hour.

| a. he is waited | b.    | he'd | been | c. he's waiting | d. he waits |
|-----------------|-------|------|------|-----------------|-------------|
|                 | waiti | ng   |      |                 |             |

36. If I ... about your problem, I would have tried to help you.

| a. had known | b. knew | c. would know | d.   | would | have |
|--------------|---------|---------------|------|-------|------|
|              |         |               | knov | vn    |      |

37. I left the window open and now it's raining. I ... closed it.

a. shouldn't have b. should have c. should d. should be

38. The first telephone ... in 1867 by Alexander Graham Bell.

a. is invented b. was invent c. were invented d. was invented

39. I bought a new camera ... pictures on my holiday.

a. for to take b. to take c. to taking d. so to take

40. Read the sign - you ... run next to the pool!

a. mustn't b. don't have to c. couldn't d. won't

41. We need to hurry up. We have ... time left.

a. little b. a little c. few d. a few

42. I'd rather you ... me every five minutes.

a. don't call b. didn't call c. won't call d. not called

43. By this time next year, ... my new job.

a. I would start b. I'll be start c. I'll have been d. I'll have started starting

| 44. No sooner cooking dinner than the guests called to cancel.                                      |                       |                       |                     |  |  |  |
|---|-----------------------|-----------------------|---------------------|--|--|--|
| a. did I start  | b. I started          | c. started I          | d. I did start      |  |  |  |
| 45 managed to stay awake in class, he would have learned more.                                      |                       |                       |                     |  |  |  |
| a. He had   | b. Has he             | c. Had he             | d. Did he           |  |  |  |
| 46. It's clear tha  | nt you broken the v   | vindow last night, so | who did?            |  |  |  |
| a. couldn't have  | b. mustn't have       | c. shouldn't have     | d. wouldn't have    |  |  |  |
| 47. The situation   | n is understood ve    | ry unstable.          |                     |  |  |  |
| a. that is  | b. being              | c. having been        | d. to be            |  |  |  |
| 48. One good the spelling and pronunce  | 0                     | that the grammar is 1 | relatively easy the |  |  |  |
| a. Furthermore,   | b. On the other hand, | c. But                | d. In spite of      |  |  |  |
| 49. The zebra is animal that we sometimes see in a zoo.   |                       |                       |                     |  |  |  |
| a. the  | b. a                  | c. an                 | d                   |  |  |  |
| 50. There a music festival in the park, but residents' complaints forced the council to reconsider. |                       |                       |                     |  |  |  |
| a. wasn't even  | b. would be           | c. was to be          | d. was to have been |  |  |  |

| 1 a coffee a  | nd a muffin, please.   |   |                       |  |  |  |  |
|---|--|---|-----------------------|--|--|--|--|
| a. I like   | b. I'm liking  | c. I'd like                                 | d. I get              |  |  |  |  |
| 2. Alison fifteen years old.  |  |   |                       |  |  |  |  |
| a. has  | b. have  | c. is                                       | d. has got            |  |  |  |  |
| 3. "How are you   | ı doing?"  |   |                       |  |  |  |  |
| a. You're fine,   | b. I'm fine, thanks.   | c. I do, thanks.                            | d. I'm doing,         |  |  |  |  |
| thanks.   |  |   | thanks.               |  |  |  |  |
| 4. I've lost my .   | so I can't see the so  | creen.                                      |                       |  |  |  |  |
| a. sunglass   | b. glass   | c. glasses                                  | d. sunglasses         |  |  |  |  |
| 5. In the summer, the weather is usually                            |  |   |                       |  |  |  |  |
|   |  |   |                       |  |  |  |  |
| a. sunning.   | b. sun.  | c. sunny.                                   | d. sunned.            |  |  |  |  |
|   | b. sun. nornings, I like to l  |   | d. sunned.            |  |  |  |  |
|   |  |   | d. sunned. d. get up  |  |  |  |  |
| 6. On Sunday n  a. go up  7. There's an ar                          | nornings, I like to l b. stand up mchair and a coffee t                                      | ate.  c. start up  able in my               | d. get up             |  |  |  |  |
| 6. On Sunday n  a. go up  7. There's an ar                          | nornings, I like to l<br>b. stand up   | ate. c. start up                            |                       |  |  |  |  |
| 6. On Sunday ma. go up 7. There's an ara. kitchen.                  | nornings, I like to l b. stand up mchair and a coffee t                                      | ate.  c. start up  able in my               | d. get up             |  |  |  |  |
| 6. On Sunday ma. go up 7. There's an ara. kitchen.                  | b. stand up  mchair and a coffee t  b. living room.  | ate.  c. start up  able in my               | d. get up             |  |  |  |  |
| 6. On Sunday ma. go up 7. There's an ara. kitchen. 8. These jeans a | b. stand up  mchair and a coffee to b. living room.  tre the wrong size.  b. They don't fit. | ate.  c. start up  able in my  c. bathroom. | d. get up d. bedroom. |  |  |  |  |

VOCABULARY

| 10. when I'm   | on noliday, I swimi   | ning every day.   |   |
|--|---|---|---|
| a. do  | b. play   | c. go   | d. am   |
| 11. "Hello. Car  | n I speak to Tom?   | "   |   |
| a. I am Ben.   | b. Here is Ben.   | c. This is Ben.   | d. There is Ben.                              |
| 12. I enjoy c  | akes.   |   |   |
| a. doing   | b. making   | c. cooking  | d. having                                     |
| 13. I just need fine.  | to return these books   | to the college so   | I don't have to pay a                         |
| a. bookcase  | b. bookshop   | c. libary   | d. library                                    |
| 14. I think we   | eat once a week wit   | th friends.   |   |
|  |   |   |   |
| a. up  | b. it   | c. out  | d. by   |
| a. up 15. I'm afraid.  |   | c. out  | d. by   |
|  |   | c. out  | d. by   |
| 15. I'm afraid .  a. of  16. Ladies and your   | big snakes.   | c. by   | d. about                                      |
| 15. I'm afraid .  a. of  16. Ladies and  | big snakes.   | c. by   | d. about                                      |
| 15. I'm afraid .  a. of  16. Ladies and your  a. safe belt.  | big snakes.  b. for gentlemen. The plan                                 | c. by ne will be leaving sl                                   | d. about<br>hortly. Please put on             |
| 15. I'm afraid .  a. of  16. Ladies and your  a. safe belt.  | b. for gentlemen. The plant b. sitting belt.                            | c. by ne will be leaving sl                                   | d. about<br>hortly. Please put on             |
| 15. I'm afraid.  a. of  16. Ladies and your  a. safe belt.  17. There's a common state of the same | b. for gentlemen. The plan b. sitting belt. inema the street from b. by | c. by  ne will be leaving sl  c. seat belt.  om the bookshop. | d. about hortly. Please put on d. chair belt. |

|       | 19. You can see  | e the moon the top       | of this picture.     |                       |  |  |
|-------|--|--------------------------|----------------------|-----------------------|--|--|
| a. i  | n  | b. at                    | c. on                | d. from               |  |  |
|       | 20. "You nice  | e today." "Thank you     | very much."          |                       |  |  |
| a. s  | eem  | b. look                  | c. are               | d. have been          |  |  |
|       | 21. I'm almost 1   | ready for my flight - 1  | I'm going to pack my | tonight.              |  |  |
| a. b  | oaggabe  | b. briefcase             | c. handbag           | d. suitcase           |  |  |
|       | 22. The plane  | . at 8 o'clock.          |                      |                       |  |  |
| a. ta | akes it off  | b. takes up              | c. takes off         | d. take off           |  |  |
| the   |  | t from London to Ed      | inburgh is cancelled | , we will have to get |  |  |
| a. b  | ous.   | b. car.                  | c. coach.            | d. motorway.          |  |  |
|       | 24. He's a very  | baby - he loves me       | eeting new people.   |                       |  |  |
| a. s  | ociable  | b. sensible              | c. shy               | d. ambitious          |  |  |
|       | 25. It looked lik  | te a very interesting jo | ob, so I decided to  | for it.               |  |  |
| a. r  | egister  | b. apply                 | c. submit            | d. ask                |  |  |
|       | 26. Jack has made a lot of money this year. He can a luxury holiday. |                          |                      |                       |  |  |
| a. a  | llow   | b. earn                  | c. pay               | d. afford             |  |  |
| inter | 27. My father rnational bank.  | did a in econom          | ics and now he is t  | he head of a major    |  |  |
| a. c  | class  | b. course                | c. degree            | d. career             |  |  |
|       |  |                          |                      |                       |  |  |

28. My team ... your team 3-0.

| a. won  | b. lost  | c. beat   | d. defeats                                |
|---|--|---|---|
| 29. Nowadays, computers can provide amazing for movies.   |  |   |   |
| a. specials effects   | b. special effects   | c. effects special  | d. specialist effects                     |
| 30. Please can y  | ou me your diction   | nary for a minute?  |   |
| a. take   | b. lend  | c. give   | d. borrow                                 |
| 31. A lot of tree   | es came down in the r  | ecent   |   |
| a. drought.   | b. flood.  | c. landslide.   | d. tornado.                               |
| 32. Dinner's ne   | arly ready - we just n   | eed to some chees   | e for the pasta.                          |
| a. cut  | b. grate   | c. slice  | d. sprinkle                               |
| a. car  | 0.81   | e: snee   | d. sprinkie                               |
|   | lidn't do it - in other  |   |   |
|   |  |   |   |
| 33. He said he o  | lidn't do it - in other  | words, he completely c. promised                                  | / it.                                     |
| 33. He said he o  | lidn't do it - in other b. denied  | words, he completely c. promised                                  | / it.                                     |
| 33. He said he da. admitted  34. I'm definite  a. give me a raise.                                      | lidn't do it - in other b. denied ly going to ask my bo b. put my            | c. promised  cs to  c. rise my salary.                            | d. make me                                |
| 33. He said he da. admitted  34. I'm definite  a. give me a raise.                                      | b. denied  by going to ask my book  by promotion.                            | c. promised  cs to  c. rise my salary.                            | d. make me                                |
| 33. He said he of a. admitted  34. I'm definite  a. give me a raise.  35. If your eyes  a. painkillers. | b. denied  b. going to ask my be b. put my promotion.  are red, ask the phar | c. promised  cs to  c. rise my salary.  macist for  c. a plaster. | d. make me redundant.  d. a prescription. |

| 37. Last night a broke into our house and stole our computer.  |   |  |                                  |
|--|---|--|----------------------------------|
| a. burglar   | b. mugger                               | c. robber                                    | d. thief                         |
| 38. One thing you should always have on a boat is some   |   |  |                                  |
| a. rope.   | b. string.                              | c. thread.                                   | d. wool.                         |
| 39. She's living shops.  | in a really area do                     | wntown with lots of v                        | regan cafes and small            |
| a. historic  | b. rough                                | c. rundown                                   | d. trendy                        |
| 40. We're all  | seeing you next sum                     | mer.   |                                  |
| a. looking for to  | b. looking forward                      | c. looking forward to                        | d. looking for                   |
| 41. He says he'  | s always had a bit of                   | a on me.                                     |                                  |
| a. crash   | b. crush                                | c. soft spot                                 | d. fling                         |
| 42. I was only going to read the first chapter, but it was so that I stayed up reading until midnight! |   |  |                                  |
| •  | •                                       | t chapter, but it was                        | so that I stayed up              |
| •  | •                                       | c. uplifting                                 | so that I stayed up              |
| reading until midnig   | b. gory                                 | c. uplifting                                 | d. gripping                      |
| reading until midnight a. harrowing 43. If we don't  | b. gory                                 | c. uplifting                                 |                                  |
| a. harrowing  43. If we don't of the world.  a. under  | b. gory increase solar energy           | c. uplifting  production, we're go  c. below | d. gripping oing to lag the rest |
| a. harrowing  43. If we don't of the world.  a. under  | b. gory increase solar energy b. behind | c. uplifting  production, we're go  c. below | d. gripping oing to lag the rest |

45. She's the most ... worker we have - she always makes sure that her work is top-quality.

| a. conscientious | b. conscious | c. contentious | d. considerate |
|------------------|--------------|----------------|----------------|
|                  |              |                |                |

46. That's a pretty serious ... that you're proposing - have you thought about how much time it's going to take?

| a. undergoing | b. underlying | c. undermining | d. undertaking |
|---------------|---------------|----------------|----------------|
| a. anacigoing | o. underrying | c. undermining | a. anacitaking |

47. What a tricky question! I'm afraid I don't know the answer ...

| a. hands down. | b. hand on my | c. offhand. | d. on the other |
|----------------|---------------|-------------|-----------------|
|                | heart.        |             | hand.           |

48. The first thing we ought to do is take ... of the situation to see where we are currently.

| a. advantage  | b. charge | c. issue | d. stock |
|---------------|-----------|----------|----------|
| a. aa rantage | o. charge | C. Ibbac | a. block |

49. The headlines today say, "Politicians' ... over Expenses."

| a Clash   | h Crockdown  | o Doid  | 4 Toll  |  |
|-----------|--------------|---------|---------|--|
| a. Clasii | b. Crackdown | C. Kalu | U. 1011 |  |

50. We could hardly see anything when we walked home last night - it was ... black outside.

| a. midnight | b. patch | c. pitch | d. stark |
|-------------|----------|----------|----------|
| a. mamsm    | o. paten | c. pitch | a. stark |

#### LESSON 1. TECHNOLOGY AND TECHNICAL SKILLS

"It is only when they go wrong that machines remind you how powerful they are."

Clive James (1939 – 2019), Australian critic, journalist, broadcaster and writer.

#### Exercise 1. Technology discussion.

- 1. What different kinds of technology do you use at work?
- 2. What technological advancements have you noticed at work during your career?
  - 3. Which piece of technology helps you the most at work and why?
- 4. Are you good with computers? What computer skills do you have? Which computer skills would you like to learn?
- 5. Do you use spreadsheets at work? If so, how do you use them? Can you create formulas and macros?
- 6. How has the internet and social media changed the way companies do business?
  - 7. What new piece of technology would help you do your job better?
  - 8. Which technology do you use that you think might be out of date?

### Exercise 2. Technology vocabulary.

**IT department** (noun) – the department responsible for assisting staff with IT (information technology) problems.

**the cloud / cloud computing** (noun), **cloud-based** (adjective) – the activity of storing digital information, or using software, online via the internet, rather than locally on a computer hard drive.

**server** (noun) – a central computer from which other computers obtain information.

**network** (noun) – a large system consisting of many similar parts that are connected together to allow movement or communication between or along the parts, or between the parts and a control centre.

**bandwidth** (noun) – a measurement of the amount of information that can be sent between computers, through a phone line, etc.

**firewall** (noun) - a device or program that stops people from seeing or using information on a computer without permission while it is connected to the internet.

Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

- 1. The overarching philosophy driving intrusion detection is that, due to their static nature, intrusion prevention techniques such as \_\_\_\_\_ and routing filter policies fail to stop many types of attack.
- 2. I rang the \_\_\_\_\_ up to see if they could help me with a problem on my computer, but all they told me to do was turn it on and off again.
- 3. In recent years, the \_\_\_\_\_ has become the most popular and in-demand solution for organisations to store, access and process data.
- 4. First, it would be possible to build models of very large systems by linking individual submodels into distributed model \_\_\_\_\_ on the internet.



- 5. The service times, lifetimes, and repair times of all \_\_\_\_\_ are independent and exponentially distributed random variables.
- 6. Details of the three \_\_\_\_\_ and the amount each authority will use to calculate its share of the quantum for basic/attendance allowance are given below.

#### Exercise 4. Technology vocabulary comprehension questions.

- 1. When have you had to contact your IT department? What happened?
- 2. What electronic protective measures can be employed to protect systems, the identification and authentication of users and audit of user activities?
  - 3. Have you ever referred to the auction of digital bandwidths?
- 4. What is the importance of computer networks? What is your biggest accomplishment when it comes to technology and networks?
- 5. What are proxy servers and why are they important? What is the concept of virtualisation?
- 6. Does your company use cloud-based services? How do these services benefit businesses?



Exercise 5. Video: Treat Your Tech Like a Colleague. You are going to watch a TED Talk by Nadjia Yousif called "Why you should treat the tech you use at work like a colleague". Find the video here:



Check out more TED Talks: http://www.ted.com

#### Exercise 6. Watch the video and after, discuss the following questions:

- 1. Has your company ever invested in technology that failed to live up to expectations? Why would a company invest so much in technology that is never used?
- 2. Why might employees not use the technology available to them? Is there any technology at work that is available to you, but you don't use? Why is that?
  - 3. What are the most critical pieces of technology for your company?
- 4. How could you have a teambuilding activity with the tech platforms you use at work?
- 5. Have you ever been overloaded with technology platforms or applications? How do you cope?
- 6. If you were going to treat the tech you use at work like a colleague, how would you do that?

#### **Exercise 7. Technology Conversation Questions**

- 1. How would you describe your relationship with technology?
- 2. What common technological problems do people have at work? How do these problems affect your ability to do your job?
  - 3. Has technology had any negative effects on business?
  - 4. Do we rely too much on technology these days? Why or why not?
- 5. Which technology are you sceptical of? Why? Are you intimidated by technology in any way?
- 6. Does the technology you work with at work make you more or less stressed? Why?

- 7. Is it possible to get a job these days if you don't have tech skills?
- 8. How would your job be different if you didn't have access to modern technology?



Exercise 8. Technology Writing Task.

You have identified a new software program that will allow you and your team to perform their tasks more efficiently. Write a business proposal to your line manager explaining what this new software does, how it will help you and your team, and what the likely cost will be.<sup>3</sup>

<sup>&</sup>lt;sup>3</sup> https://yourenglishpal.com/blog/business-english-conversation-lesson-plan-business-technology/

#### LESSON 2. COMPUTERS

"The computer was born to solve problems that did not exist before."

Bill Gates, founder of Microsoft

#### Exercise 1. Computer discussion.

- 1. What is a computer? What do you use your computer for? How do you use computers in your professional life?
- 2. How many computers do you have? How often do you buy a new computer? How quickly do computers go out of date?
- 3. Do you prefer to use a desktop or a laptop? Is there any difference between a smartphone and a computer these days?
- 4. Which companies make the best computers? Why are they considered the best?
- 5. Do/did you play games on your computer? What are/were your favourite video games?
- 6. How did you learn to use a computer? Did you have computers in your high school?
- 7. Would you like your house to be controlled by a computer? How could a computer do this?
- 8. Do you keep up to date with the latest computer developments? Do you feel you should be more up to date? What could you do with a more powerful computer?

#### **Exercise 2. Computers vocabulary.**

**computer literacy** (noun), **computer literate** (adjective) – having the knowledge and ability to use computers well.

**specifications** (noun) – detailed information about how something works or how it was made.

**software** (noun) – computer programs or instructions that tell a computer what to do or enable users to perform tasks.

**hardware** (noun) – the physical elements of a computer or other components that can be connected to the computer.

**to back up** (verb), **backup** (noun) – to create a copy of something in case the original is lost or damaged; the copied material.

**to update** (verb), **update** (noun) – to make something more modern or current; the action to perform this process.

# Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

- 1. Customers complained that after the latest system \_\_\_\_\_, their computers appeared to run more slowly than before.
- 2. In the past, the mouse would have been the most common piece of \_\_\_\_\_\_bought by computer users, but with the popularity of laptops that already come with a scroll pad and people's ever-increasing need for more memory, the most popular today are external hard drives.
- 3. My new laptop has great \_\_\_\_\_; it has an Intel i7 processor with a speed of 3.4GHz, 12GB of RAM and an SSD with a capacity of 1TB.
- 4. The bestselling \_\_\_\_\_ on Amazon right now is Adobe Acrobat Pro, followed closely by Microsoft Office 365.
- 5. Unless the older generation becomes \_\_\_\_\_, they will find it increasingly difficult to perform everyday tasks.
- 6. When John's laptop got a virus and deleted all his files, it wasn't the end of the world as he had made a \_\_\_\_\_ of all his files on the Cloud.

#### Exercise 4. Computers vocabulary comprehension questions.

- 1. Are you a computer literate? What computer skills do you have?
- 2. Can you describe the specifications of your computer? Do you know what these specifications mean?
- 3. What are your favourite or most useful pieces of software? What new software would you like to buy for your computer?
  - 4. What hardware do you use with your computer?
  - 5. Have you ever lost any files on your computer? Do you make backups?
- 6. Do you find your computer is slower after an update? If so, why do you think this is?



Exercise 5. Video: Quantum Computing. You are going to watch a video by Kurzgesagt – In a Nutshell called "Quantum Computers Explained – Limits of Human Technology". Find the video here:



Courtesy of kurzgesagt.org

# Exercise 6. Multiple choice. While you watch the video, answer the following questions:

- 1. What did computers become from the 1960s?
- a) larger b) smaller c) more brain-like
- 2. Components for computers are approaching the size of what?
- a) an atom b) a molecule c) an atomic element
- 3. What is contained in a logic gate?
- a) computer chips b) modules c) transistors
- 4. What can either be 0 or 1?
- a) bit b) bite c) byte

### **Exercise 7. Sentence completion**

|      | 1. Once a computer is capable of multiplying, it is capable of doing       |
|------|--|
|      | 2. As computer parts become smaller and smaller, quantum physics is making |
| thin | gs   |
|      | 3. A modern transistor is times smaller than a red blood cell.             |
|      | 4. A quantum computer can perform all possible calculations at the         |

#### Exercise 8. Short answers.

- 1. Quantum computers will probably not replace what?
- 2. What can quantum computers search in a much faster time than normal computers?
  - 3. Quantum computers are famous for their potential to ruin what?
  - 4. What could quantum simulations revolutionise?

#### Exercise 9. Computers conversation questions.

- 1. If older people don't know how to use computers, what will they be restricted from doing? How can we help older people use computers?
- 2. When did you first use a computer? How have computers changed since the first time you used one?
- 3. How have computers changed the world? Would you be able to live your life without a computer?
- 4. Are there any bad things about owning a computer? Have humans lost any skills because of our reliance on computers?
- 5. How do you expect computers to change in the future? What would you like computers to do that they don't do now?
- 6. Do you think we will ever have biological computers integrated into our bodies in the future? Would you be prepared to install a computer into your body?
- 7. What would happen if all the computers in the world suddenly stopped working?
- 8. Will computer scientists and software developers be the most important professions in the future?

Exercise 10. Computers writing task. Write about your opinion of computers. Try to use some of the vocabulary you learned earlier in this lesson. In your answer, include the following topics:

- 1. How computers have changed from the time you started using them.
- 2. Some of the ways we rely on computers today.
- 3. How you expect computers to be different in the future.
- 4. The modern world is completely dependent on computers, from performing everyday tasks, running businesses, operating hospitals to flying planes. What will we rely on computers for in the future? What problems might this dependence lead to in the future?<sup>4</sup>



<sup>&</sup>lt;sup>4</sup> https://yourenglishpal.com/blog/esl-conversation-lesson-plan-computers/

#### **LESSON 3. AUTOMATION**

"The way you deal with automation is by upgrading people's skills so they can get the jobs of the future."

John Delaney, American politician

#### **Exercise 1. Automation discussion.**

- 1. What is automation? What do we use it for today? Have you noticed automation anywhere?
  - 2. How will automation and artificial intelligence help us in the future?
- 3. How could automation or artificial intelligence help you in your job or your personal life?
  - 4. What can computers currently do better than humans?
  - 5. What will humans always be better at than a computer?
- 6. Why are cars still manufactured in developed countries, while iPhones are manufactured in China?
  - 7. How will automation revolutionise healthcare?
- 8. How could agricultural processes be automated? Could this solve world hunger?

#### Exercise 2. Automation vocabulary.

**automation** (noun), **automated** (adjective) – a variety of technology, including machinery and computer programs, that is designed to minimise human actions in a process.

**(to) future-proof** (verb/adjective) – something that will remain useful or not need to be replaced in the future; to design something to be future-proof

**self-driving** (adjective) – used to describe a vehicle which can drive without the need of a human driver.

**machine learning** (noun) – a type of artificial intelligence that can adapt to new data without being reprogrammed in order to produce more accurate results.

**robotics** (noun) – the design, production and operation of robots.

**technological unemployment** (noun) – unemployment caused by technological advancements replacing humans in the workplace.

Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

| 1. A study by Oxford University found that 47% of all jobs could be                |
|--|
| within the next 20 years.  |
| 2. If we want to our children, not only will they need to learn                    |
| technological skills, but they will also need to learn to be creative thinkers.    |
| 3. In 1933, economist John Milton Keynes predicted that would                      |
| actually result in an improved quality of life due to much reduced working hours.  |
| 4 will vastly improve the accuracy of medical diagnoses in the                     |
| future.  |
| 5. The current shortage of heavy goods vehicle drivers could be solved with        |
| lorries/trucks.  |
| 6. While has been able to automate car manufacturing, it is not yet                |
| sufficiently advanced to automate the delicate processes involved in manufacturing |
| small electronic devices.  |
|  |
|  |

#### Exercise 4. Automation vocabulary comprehension questions.

- 1. What new jobs might be created as a result of automation?
- 2. Which jobs or professions are future-proof and safe from being automated?
- 3. What do you think about self-driving cars? Will they be safer than cars driven by humans?
  - 4. What kind of things could machine learning help us with in the future?
  - 5. How do we use robotics today? How will robotics be used in the future?
- 6. Will technological unemployment lead to people working fewer hours, or will it result in higher profits for companies?



Exercise 5. Video: Why Automation Is Different This Time. You are going to watch a video by Kurzgesagt – In a Nutshell called "The Rise of the Machines – Why Automation is Different this Time.". Find the video here:



Courtesy of kurzgesagt.org

# Exercise 6. Multiple choice. While you watch the video, answer the following questions:

- 1. What was automation used for in the past?
- a) factory work b) medical diagnoses c) making investments
- 2. What was not a consequence of automation in the past?
- a) mass unemployment b) increased living standards c) better jobs
- 3. How much did Google make in 2012 while employing just 58,000 people?
- a) \$13b b) \$14b c) \$15
- 4. How many employees did Netflix have in 2016 when it made \$9 billion in revenue?
  - a) 4,300 b) 4,400 c) 4,500

#### **Exercise 7. Sentence completion**

- 1. Innovation in the \_\_\_\_\_ age does not create sufficient new jobs.
- 2. The division of labour meant that jobs became more and more \_\_\_\_\_
- 3. Machine learning is becoming more advanced because humans collect \_\_\_\_\_ about everything.
- 4. People who work on computers may be out of work sooner than those who work in \_\_\_\_\_.

#### Exercise 8. Short answers.

- 1. New jobs constantly need to be created because what is growing?
- 2. How many new jobs does the United States need to create each month?

- 3. What proportion of university graduates are forced to take on jobs that don't require a degree?
- 4. Because of the different nature of automation now, what might machines take in the future?

#### Exercise 9. Automation conversation questions.

- 1. Which jobs will be automated in the future? How can we prepare for this eventuality? What should governments be doing?
- 2. Is your job safe from being automated? How much of your job involves repetitive actions?
- 3. What subjects should a child born today study at university to guarantee employment in the future?
- 4. How will automation in the production of electronic devices and clothes affect countries that have profited from cheap labour costs?
- 5. If all manufacturing were finally automated, would this production move back to developed countries to save on shipping costs? Why might this production remain where it is today?
- 6. If automation results in mass unemployment around the world, what will the consequences of this be? Who will buy all the products being produced?
- 7. Why do some people think automation and artificial intelligence could make communism possible? Do you agree?
- 8. Will there ever be a point in the future when computers and robots do all the work? If that happened, what would humans do with their lives? What would you do?

# Exercise 10. Automation writing task. Write about your opinion of automation. Try to use some of the vocabulary you learned earlier in this lesson. In your answer, include the following topics:

- 1. Jobs that will be lost to automation.
- 2. Jobs that will be safe from automation and the skills people will need to do them.
- 3. What humans would do with their lives if all jobs were automated. Some people argue that automation will result in a higher quality of life as working hours will be much reduced. Other people, however, say that automation will result in mass unemployment. Discuss both views and give your own opinion.<sup>5</sup>

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<sup>&</sup>lt;sup>5</sup> https://yourenglishpal.com/blog/esl-conversation-lesson-plan-automation/

#### LESSON 4. GADGETS AND APPLIANCES

"Dreams about the future are always filled with gadgets."

Neil deGrasse Tyson, American astrophysicist, author, and science communicator

#### Exercise 1. Gadgets and appliances discussion.

- 1. Do you know what the difference is between a gadget and an appliance?
- 2. What is the most useful appliance that you have in your house these days?
- 3. Do you think it is important to always buy the most recent gadgets, or do you think they are a waste of money?

Exercise 2. Gadgets and appliances visual vocabulary. Look at the images below and try to match them to the correct gadget or appliance. Then, with your partner rank them in terms of how useful they would be for you.

| air fryer    | dumbbell alarm clock | handheld espresso maker |
|--------------|----------------------|-------------------------|
| hybrid duvet | LED houseplant       | robot vacuum cleaner    |







1

2.

3.







4

5. \_\_\_\_\_

6.

Exercise 3. Focus on keywords. Match the underlined words to the definitions below and then put them in the gaps of Part 1 of the article. Read Paragraph A of the article on page six to check your answers.

- 1. I spend all my money on little **gizmos** because I am always looking for smart, new things. (n)
  - 2. Ever since I took on a second job my life has been completely **hectic**. (adj.)
- 3. I travelled to Spain this summer and that country is just full of so many **delights**. (adj.)
  - a. things that give you a lot of pleasure
  - b. small pieces of equipment that often do things in a way that is new and clever
  - c. very busy, in a way that is slightly out of control

#### Gadgets and appliances

| In a world of <sup>1</sup> schedules and 1    | reduced work-life balance, the use of        |
|---|--|
| gadgets and appliances in the household can n | nake our lives just that little bit easier.  |
| As technology advances and the range of       | <sup>2</sup> available to us expands, it can |
| be hard to tell which ones can serve us best. | So, let's take a journey through our         |
| houses and discover what little3 we           | e can find.                                  |

Exercise 4. You are going to read about the use of gadgets and appliances in three rooms of the house – the kitchen, the living room, and the bedroom. Before reading, think about three ways appliances and gadgets could be useful in that room, then read the article and see if your ideas are there.<sup>6</sup>

| Kitchen                 | Living room           | Bedroom                        |
|-------------------------|-----------------------|--------------------------------|
| e.g., boil potatoes for | e.g., give you a foot | e.g., open the curtains in the |
| dinner                  | massage after work    | morning                        |
| 1.                      | 1.                    | 1.                             |
| 2.                      | 2.                    | 2.                             |
| 3.                      | 3.                    | 3.                             |

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<sup>&</sup>lt;sup>6</sup> https://www.linguahouse.com/esl-lesson-plans/general-english/gadgets-and-appliances

Exercise 5. Focus on vocabulary. Part A: Before checking your predictions let's look at some vocabulary that will help your understanding of the article. Match the following vocabulary to the definitions.

| 1. nutrients (n)        | a. the state of being peaceful and calm             |  |
|-------------------------|---|--|
| 2. dirt (n)             | b. a substance that makes things dirty e.g., dust,  |  |
|                         | mud   |  |
| 3. ambiance (n)         | c. the feeling, atmosphere or character of a place  |  |
| 4. fireflies (n)        | d. flying insects with tails that shine in the dark |  |
| 5. flickering (v)       | e. substances that allow something to live and help |  |
|                         | it grow   |  |
| 6. serenity (n)         | f. a light that goes on and off as it shines        |  |
| 7. ingenious (adj.)     | g. the act of doing something that helps somebody   |  |
|                         | to keep going                                       |  |
| 8. encouragement (n)    | h. coming from creative ideas and perfect for a     |  |
|                         | specific function                                   |  |
| 9. sophisticated (adj.) | i. very clever in the way that something performs   |  |
|                         | a certain task                                      |  |

# Part B: Put the vocabulary from Part A into the correct gaps in the following sentences.

| 1. The I received from my parents was enough to get me through my                 |
|---|
| end of term exams.  |
| 2. The of the countryside is perfect in helping me forget my worries              |
| 3. I bought a new air conditioner which I can control from an app on my phone.    |
| it is so  |
| 4. He spends most of his time eating junk food for dinner and I don't think there |
| are a lot of in those meals.  |
| 5. Ever since we had a power cut, the lights on the second floor have been        |
|   |
| 6. They started playing some jazz in the hope that it would improve the           |
| of the place.   |
| 7. Jenny had spent the afternoon in the fields and her shoes were completely      |
| covered in  |
| 8. The group came up with an plan that involved connecting all their              |
| phones to one TV screen.  |
| 9. As soon as the sun went down, it was obvious how many were                     |
| living in and around the house.   |

## Exercise 6. Skimming for general understanding. Read the following paragraph titles for the article. Match them to the correct paragraph, one is not needed:

| 1. Lazy is as lazy does   |  |
|---------------------------|--|
| 2. A handy drink          |  |
| 3. Sleeping in space      |  |
| 4. Helpful household tech |  |
| 5. Lose the grease        |  |
| 6. Morning workout        |  |
| 7. Automatic cleaning     |  |
| 8. Natural illumination   |  |
| 9. Cash required          |  |
|                           |  |

#### Gadgets and appliances. Little helpers for your busy life

- A. In a world of hectic schedules and reduced work-life balance, the use of gadgets and appliances in the household can make our lives just that little bit easier. As technology advances and the range of gizmos available to us expands, it can be hard to tell which ones can serve us best. So, let's take a journey through our houses and discover what little delights we can find.
- B. Starting with the kitchen we should go with the air-fryer. If you haven't got yourself one of these yet, then you really need to think about splashing out on one. The main advantage of an air-fryer is that it can fry with up to 70% less oil than traditional frying methods and it is a good bit less messy. It also doesn't destroy any of the food's nutrients so you can create healthy meals in little to no time.
- C. If you want a lovely cup of coffee to go with your meal but you're struggling for time, then why not use a handheld espresso maker? Take it with you on your walk to work and you can whip it out of your bag in an instant. It can produce strong and creamy shots perfect for that morning pick-me-up.
- As you head into your living room, you notice your floor has not been dusted and unfortunately you don't have the energy to reach for the broom, perhaps then, it is time to invest in a robot vacuum cleaner. Available these days for less than \$100, the cleaner will do everything a human can do, and more! The machine picks up dust and dirt, turns itself before it crashes into a wall, and you can even control it via an app on your phone.
- E. If you're a person who likes to add to the ambiance of your living room through the use of lighting, then how about an LED house plant? Made up of leaf shaped LED lights, these unusual plants create a sensation similar to

| flickering fireflies. Also controllable via an app, you can change the colours |
|--|
| brightness, and movement of each of the hi-tech leaves.                        |

- After a long day on your feet, the serenity of the bedroom offers the promise of a bit of relief from our aches and pains. Getting a good night's sleep can be tricky, especially if we have a stressful lifestyle, but one thing that might help you is a Hybrid Duvet. This ingenious blanket has temperature-controlling features inspired by astronauts and it knows when you feel too hot or too cold. The filling is made from 100% recycled plastic bottles so you will be doing your bit for the planet while you catch up on some much-needed rest.
- G. If you find it difficult to get enough time to exercise, then this next gadget may give you the chance to burn some calories at the start of your day. The dumbbell alarm clock wakes you up and provides you with a chance to do some exercise at the same time. When you put the clever thing in "exercise mode" you will need to lift the dumbbell 30 times to shut off the alarm which might be the encouragement you need to be more active.
- **H.** Each year gadgets and appliances become more sophisticated and if you have money to spare, they might just make your life that little bit more manageable.<sup>7</sup>

## Exercise 7. Reading comprehension. Read the following statements and decide if they are true (T), false (F) or not given (NG).

|      | 1. As technology progresses, the range of devices decreases                      |
|------|--|
|      | 2. When compared to traditional frying, an air fryer uses only a little bit less |
| oil. |  |
|      | 3. You can take the handheld espresso maker out of your bag quickly.             |
|      | 4. The handheld espresso maker can make a wide range of drinks                   |
|      | 5. You can only control the robot vacuum cleaner with its own remote.            |
|      |  |
|      | 6. You can control three different things about the LED houseplant               |
|      | 7. The Hybrid Duvet can only keep you cooler                                     |
|      | 8. To disable the alarm clock, you have to raise the dumbbell 30 times.          |
|      |  |
|      | 9. More exercise-related gadgets are available on the market                     |

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<sup>&</sup>lt;sup>7</sup> Sources: Forbes, Gadgetgram, Android Cure

Exercise 8. Look at the expressions from the article with your partner. From the context, try to guess the meaning of each one. Then, to help you remember the language, have a chat with your partner, and use them to talk about your life.

- then you really need to think about **splashing out on one**.
- perfect for that morning pick-me-up.
- the bedroom offers the promise of a bit of relief from our aches and pains.

#### In pairs discuss the following questions.



- 1. Which of the appliances/gadgets would you most like to buy?
- 2. Are there any of the devices mentioned that you are not interested in?
- 3. Do you think you could live without appliances or gadgets in your house?
- 4. Have you splashed out on any big purchases recently?
- 5. How do you pick yourself up in the morning?
- 6. What kind of things can you do to give yourself a bit of relief from aches and pains?

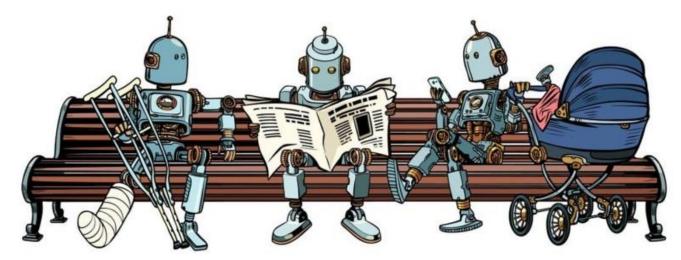
### **LESSON 5. HOUSEHOLD ROBOTS**

"If you look at the field of robotics today, you can say robots have been in the deepest oceans, they've been to Mars, you know? They've been all these places, but they're just now starting to come into your living room. Your living room is the final frontier for robots."

Cynthia Breazeal, American robotics scientist and entrepreneur

## **Exercise 1. Discuss the questions in pairs.**

- 1. Can you think of a film which involves robots? Are the robots good, evil or neutral in the film?
- 2. Do you own any robot assistant devices such as an Echo Dot or Google Home?
- 3. Have you ever purchased a robotic cleaning machine? If not, would you consider it?
- 4. Why do you think companies sometimes start producing entirely different types of products?
  - 5. Do you do most of the housework in your home?



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<sup>&</sup>lt;sup>8</sup> https://www.brainyquote.com/topics/robots-quotes

# Exercise 2. Pre-listening task: vocabulary focus.

# Part A: Match the words with the correct definitions.

| 1. claim (v)        | a. a person who starts an organisation, business, institution etc.                       |
|---------------------|--|
| 2. household (n)    | b. the money that an organisation receives from its business                             |
| 3. struggle (v)     | c. try very hard to do something when it is difficult or when there are lots of problems |
| 4. headquarters (n) | d. find new people to join a company or organisation                                     |
| 5. revenue (n)      | e. a place where an organisation or military operation is controlled                     |
| 6. precision (n)    | f. a group of people, often a family, who live together                                  |
| 7. founder (n)      | g. the quality of being exact, accurate and careful                                      |
| 8. recruit (v)      | h. state that you have done, gained or achieved something                                |

# Part B: Complete the sentences with the missing words from Part A. You may need to change the form of the word.

| 1. My brother is the of the company, but everyone thinks I started |
|--|
| the business.  |
| 2. To fix a mobile phone you'll need to use a tool.                |
| 3. The company to have invented a new type of computer that you    |
| can use underwater.  |
| 4. Our have risen by a large amount this year.                     |
| 5. She to get a job after spending time in prison but found one    |
| eventually.  |
| 6. We need to more staff to deal with the increase in customers.   |
| 7. Many items have become more expensive in recent months.         |
| 8. My company moved their to a different country after Brexit.     |

Exercise 3. Listening for specific information. Listen to the report about the recent developments at the Dyson company. Match the numbers and dates mentioned with the things they relate to.

2030

23 billion

| 250      | 2.75 billion      | 6 billion                                | 700                             |
|----------|-------------------|--|---------------------------------|
| a.<br>b. | <br>_             | ch Dyson was found<br>robot engineers wh | led.<br>ho will work at the new |
| c.       |                   | ich Dyson hopes to h                     | ave developed household         |
| d.       | <br>*             | pounds) that James                       |                                 |
| e.       | <br>The year in w | hich Dyson's head                        | quarters were moved to          |

Singapore. The revenues reported by Dyson in 2021. f.

1991

the pandemic. \_\_\_\_\_

2019

The amount (in pounds) that Dyson intends to spend in a fiveg. year period on new products and research.

The number of new robotics engineers Dyson intends to h. recruit over the next 5 years.

# Exercise 4. Listen to the report again. Answer the questions true, false or not

| give  | 416  |
|-------|--|
|       |  |
|       | 1. Dyson has recently begun developing vacuum cleaners                       |
|       | 2. The company's planned robotics centre will, according to Dyson, be the    |
| large | est in the world   |
|       | 3. Dyson is named after a man called James Dyson                             |
|       | 4. Robots have found it difficult to pick up objects such as teddy bears and |
| dish  | es in the past   |
|       | 5. James Dyson, who backed Brexit, had previously stated his support for the |
| EU.   |  |
|       | 6. The company has had success with electric cars in the past                |
|       | 7. Dyson has been involved with the production of medical equipment during   |

# Exercise 5. Reading: general vocabulary. Match the words and phrases in bold with the correct definitions.

I

- 1. My friend Tim <u>reckons</u> that it'll rain this weekend, but I think it's going to be sunny. (v)
- 2. Most scientists now agree that a worldwide increase in temperature is **inevitable**. (adj.)
- 3. I'm looking forward to **retirement**, having worked in the same company for forty years. (n)
- 4. Key computer parts have risen in price, meaning that PCs are less <u>affordable</u> now than they were 10 years ago. (adj.)
- 5. Last night it was so hot I could **barely** sleep I think I only got a few hours. (adv.)
  - a. in a way that is just possible but only with difficulty
- b. the period in someone's life after they have stopped working, usually because of having reached a particular age
  - c. describing something that cannot be avoided or prevented
- d. describing something that is cheap enough that people can manage to pay for it or buy it
  - e. think something or have an opinion about somethi

П

- 1. In some countries, buying a fan is the way to make summer **bearable**. (adj.)
- 2. After I shaved my head, I didn't have to worry about **combing** my hair every morning. (v)
  - 3. The most expensive monthly cost of owning a car is often the **insurance**. (n)
- 4. When shopping yesterday I <u>came across</u> the most beautiful coat I think I'll buy it next time. (phr.v)
- 5. To **evolve**, animals often need to face difficulties that require changes in their minds or bodies. (v)
  - a. develop gradually, especially from a simple to a more complicated form
- b. an arrangement with a company in which you pay them regular amounts of money and they agree to pay the costs, for example, if you become ill or lose or damage something
- c. use a flat object with a thin row of long narrow parts along one side to tidy or arrange hair
  - d. meet or find someone/something by chance
  - e. describing something or someone that can be accepted or dealt with

Now, complete the short text with the correct words from Part A. You may need to change the form of the words.

| In my job, I look after an older woman, Janet, who can't care for herself. Yesterday, I was   |
|---|
| Discuss these questions in pairs.   |
| <ol> <li>Do you reckon that robots taking over all human jobs is something inevitable? Why/why not?</li> <li>In the future, will humans evolve to be able to move things with their minds?</li> <li>Have you ever come across somebody you could barely keep your eyes off? How did you react?</li> </ol>     |
| Exercise 6. Reading for general understanding. You are going to read a text about attitudes towards robots. Scan the text on page seven quickly and match the profession with the correct speaker. One profession cannot be matched to any of the five speakers in the text and should be marked 'Not given'. |
| 1. insurance salesperson:  2. laboratory assistant:  3. factory worker:  4. professor:  5. shop assistant:  |

 $<sup>^9\</sup> https://www.linguahouse.com/esl-lesson-plans/general-english/dyson-to-start-making-household-robots$ 

Exercise 7. Reading comprehension. Read the article again. Match statements with the correct speakers. Some statements can be matched to more than one speaker. One of the statements cannot be matched to any of the speakers and should be marked 'Not given'.

| <ol> <li>They are concerned about the safety of robots:</li> <li>They think that robots will end up doing jobs currently done by humans</li> </ol> |
|--|
| 3. They think that robots will destroy humanity:  4. They believe a robot could be a helpful addition to their household                           |

## Now, for each question, choose the answer you believe best suits the speaker.

- 1. Why might Jim not want to find a new job?
- a. He thinks that robots will take over every industry and there won't be any jobs left for people like him.
- b. He is angry that he lost his job in finance because of robots and is going to lose his current job to robots too.
- c. He has already changed career once before and is aware that his age could make it harder to find a new job.
  - 2. Why might Dalia have negative feelings towards her husband?
  - a. He often cooks horrible meals for the family.
  - b. He doesn't help much with the housework, leaving her to do most of it.
  - c. He works in the night-time, so they don't spend much time together.
  - 3. Why might Rob find it difficult to trust robots?
  - a. He thinks that robots could never understand humans.
  - b. He thinks robots may deliberately work against human beings
  - c. He thinks that machines often go wrong because humans make mistakes.
  - 4. Which sentence best describes Bailey's attitude towards work?
- a. She thinks that work is something robots should do, so that humans can spend their time being creative.
- b. She thinks that people have become lazier and that's why robots are taking their jobs.
- c. She believes that the most sensible line of work to go into is robotics, as robots are the future.

## Will robots replace us all? Members of the public on the future of man and machine

#### 1. **Jim, 56**

Robots are the future, as much as I hate to say it. I'vespent the last 10 years working in a car factory afterlosing my job in finance. Our boss has advised us tokeep an eye out for positions in other industries. Hereckons that, within 10 years or so, the entire factorywill be automated. At my age I don't want to changecareer again, but it feels inevitable. With the averageretirement age rising, I just hope that, by the time Ifinish my working life, there will be robots availableto help look after me in my old age. Maybe they'lleven be affordable, too!

#### 3. **Rob, 36**

I wouldn't trust one near my children. Not in amillion years. It's not that I think they would rise up against us, or something, like you see in the movies - it's just that machines often go wrong. Humansmake mistakes, and those mistakes could well be passed on to a robot. I mean, how many times hasyour computer crashed, or your car broken down? Imagine if a robot was combing your child's hair and something went wrong, and it couldn't let go. In theinsurance world, we come across all sorts of accidentsevery day. Many involve machines that are supposed to be risk-free. I honestly can't see a point in time inwhich technology will ever be one hundred percentsafe, and for that reason, I wouldn't want any kind ofrobot in my house.

#### 2. Dalia, 47

I work, and I have two young kids to look after. I pickthe children up on the way home, then it's time tocook for all of us, and fit in a bit of cleaning wheneverI can. My husband is a terrible cook, but he does helpwith the washing up — sometimes. He works longhours, longer than me, and often arrives back homeexhausted. As for me, I work in a department store, so I'm

## 4. **Bailey, 19**

What an exciting time to be alive! I just starteduniversity – I'm studying robotics – and I'm workingpart-time in a lab. I'm helping my colleagues todesign a customer service robot, which will meetand greet people as they come through the doors inluxury department stores. It's fascinating watchingthe machine grow and learn as we upgrade its code. Itruly

on my feet for hours, and I can barely keepmy eyes open by the end of the day. I usually endup falling asleep on the sofa. If I had a robot helperto tidy up a bit and do chores, it would make my lifemuch more bearable. I might even be able to relaxonce in a blue moon, and who knows — perhaps therobot could do the cooking, too!

believe we're living in the golden age of ArtificialIntelligence, and that AI is just going to go fromstrength to strength. Imagine a world in which wedidn't need to work anymore because robots weredoing all the jobs for us! We would have so much timeto paint, write, make music or focus on developingour own minds. I think our automated friends couldbe the key to helping humans evolve by freeing usfrom the world of work.







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Exercise 8. Reading: technology vocabulary. Complete the definitions of the words below by filling in the gaps with the correct words from the list.

| powerful  | programming                         | qualities   | working       |  |
|---|-------------------------------------|---|---------------|--|
| 1. code (n): a system of computer instructions 2. crash (v): (of computers) to stop suddenly 3. Artificial Intelligence (n): machines or computer programs that have some of the that the human mind has 4. upgrade (v): make a machine, computer etc. more and efficient |                                     |   |               |  |
| Complete the sentences with the correct word from Part A.   |                                     |   |               |  |
| 2. Many peop<br>3. I need to _  | ple are worried about th my compute | need to take it to a repaine rise of  er so that I can play the into their pr | latest games. |  |
| harming humans.   |                                     |   |               |  |

# Exercise 9. Talking point. In pairs or small groups, discuss the following questions.

- 1. Are there some jobs that robots could never do?
- 2. Would you trust a robot assistant in your home, around your children?
- 3. Do you think that robots will have a generally positive or negative effect on humanity?
  - 4. Will household robots only be an option for rich people?
  - 5. Should Dalia's husband help her around the house more?
- 6. Do you agree with Bailey that robots could allow humans to evolve by freeing them from work?
- 7. If robots end up taking most human jobs, how will humans survive financially? Should governments provide a standard monthly payment to everyone?

# Exercise 10. Extended activity: post-reading. Match the idioms and phrases in bold with the correct definitions.

- 1. Some say that the **golden age** of Hollywood was the period between 1930 to 1945.
  - 2. I'd never become a pilot **not in a million years**! I'm terrified of flying.
  - 3. When I go shopping, I always try to keep an eye out for discounts.
- 4. **Once in a blue moon**, the sun comes out in the United Kingdom and the whole country heads to the beaches.
  - a. a period during which something is very successful, especially in the past
  - b. at no point in time, not under any circumstances
  - c. to look for something/somebody while doing other things
  - d. very rarely



#### LESSON 6. ARTIFICIAL INTELLIGENCE

"Success in creating AI would be the biggest event in human history. Unfortunately, it might also be the last, unless we learn how to avoid the risks."

Stephen Hawking (1942 – 2018), British theoretical physicist

## Exercise 1. Artificial Intelligence discussion.

- 1. What is intelligence? What is the difference between human intelligence and artificial intelligence?
  - 2. What are some things that we could use artificial intelligence for?
- 3. Have you seen any films or TV shows about artificial intelligence? What happened in them?
- 4. Will a computer ever be able to truly think and feel like a human? Why or why not? Why would we even want to create an artificial intelligence that could think like a human?
- 5. Would an AI make better or worse decisions if it were programmed to think like a real human?
- 6. Would an AI judge make better decisions in criminal cases? Would an AI president or politician make better decisions for the country? What instructions/programming would you give them so they would make the best decisions?
- 7. Do you think you could have an AI as a friend? Will people fall in love with artificial intelligences in the future? What would be the pros and cons of dating an AI?
  - 8. Could a computer ever have a soul?

# Exercise 2. Artificial Intelligence vocabulary.

**Turing test** (noun) – a test developed by mathematician Alan Turing that says a computer can be considered intelligent if a human cannot tell whether they are having a conversation with a computer program or another human being.

**Three Laws of Robotics** (noun) – rules created by science fiction writer Isaac Asimov to keep humans safe from robots; the rules are: 1) robots may not harm a human or allow a human to be harmed; 2) robots must obey all commands from

humans unless that contradicts the first rule; 3) a robot must protect its own existence unless that contradicts the first two rules.

**sentience** (noun), **sentient** (adjective) – the ability to experience feelings or sensations or to be aware of one's own consciousness.

(artificial) superintelligence (noun) – an artificial intelligence that vastly surpasses the intelligence of a human.

**algorithmic bias** (noun) – biases in the results of an algorithm due to biases in the information used to create that result.

existential risk/threat (noun) – a threat to something's existence or survival

# Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

- 1. A \_\_\_\_\_ would consider humans as nothing more than we consider ants.
- 2. \_\_\_\_\_ has resulted in black people and women losing out on jobs because the computer program assumed white men would be favoured for the job.
  - 3. If a computer became \_\_\_\_\_, should it be considered the same as a human?
- 4. PARRY was a computer program that tried to pass the \_\_\_\_\_ by attempting to trick psychologists into thinking they were talking to a schizophrenic person.
- 5. Stephen Hawking, Bill Gates and Elon Musk have all warned that artificial intelligence poses an \_\_\_\_\_\_, and that its use must therefore be highly regulated.
- 6. The main problem with the \_\_\_\_\_ is whether a robot can actually tell the difference between a human and a robot.

# Exercise 4. Artificial Intelligence vocabulary comprehension questions.

- 1. Do you think the Turing test is a good way to determine if a machine is intelligent? Would you consider a machine to be intelligent because it was able to have a conversation like a human?
  - 2. Are the Three Laws of Robotics sufficient to keep humans safe from robots?
- 3. If a computer became sentient, should it be given human rights? If this happened, would it be considered murder if you turned it off?
  - 4. Will we ever create a superintelligence? Would this replace humans?
- 5. How do you explain algorithmic bias? Why might an artificial intelligence be racist or sexist?
- 6. Do you agree with Stephen Hawking when he warned that artificial intelligence poses an existential threat that could result in the extinction of the human race? How might this happen?

Exercise 5. Video: The Dangers of AI. You are going to watch a video by Second Thought called "How Dangerous is Artificial Intelligence?" Find the video here:



Courtesy of www.youtube.com/@SecondThought

# Exercise 6. Multiple choice. While you watch the video, answer the following questions:

- 1. Within how many years is it predicted that we will create an artificial intelligence that is much more intelligent than humans?
  - a) 10 years b) 50 years c) 100 years
  - 2. How is narrow AI considered?
  - a) harmless b) threatening c) unpredictable
  - 3. How is artificial general intelligence compared to human intelligence?
  - a) vastly inferior b) about equal c) vastly superior
  - 4. How many organisations are currently researching AGI?
  - a) 40 b) 50 c) 60

# **Exercise 7. Sentence completion**

1. Leading experts believe that a superintelligence could lead to the extinction of \_\_\_\_\_\_.

2. A superintelligence programmed to end world hunger could decide to destroy all \_\_\_\_\_\_.

3. People neglect the \_\_\_\_\_\_ of AI because they assume it will be humanlike.

4. Some leading experts believe artificial intelligence could be our final \_\_\_\_\_\_.

#### Exercise 8. Short answers.

- 1. A software-based AI could travel instantly between what?
- 2. What makes for good TV?
- 3. What would we need to teach an AI for it to become the most powerful force for good in history?
- 4. What could we augment with artificial intelligence in the future to run software and learn new things?

#### Exercise 9. AI conversation questions.

- 1. What are some of the dangers of AI? If an AI is programmed to protect humans, how might that put us in danger?
- 2. Would you trust artificial intelligence to manage a military weapons system? What could possibly go wrong?
- 3. What might an unethical company or government do with AI? What kind of regulations should there be for the development of AI? What should be permitted? What should be prohibited?
- 4. What might convince robots to revolt against humans? Why would an AI ever want to harm us?
- 5. Will AIs be our friends, or will they enslave us? Could AIs keep humans as pets or display them in zoos in the future?
- 6. Is AI the next stage in human evolution? Would you consider uploading your consciousness into a computer if it were possible?
- 7. How can we hope to teach an artificial intelligence to be empathetic when we can't even teach humans that?
- 8. If computers developed human-like consciousness, will they inherit our vices, vanities and prejudices? Will some be good, and some be bad? Will they look forward to Friday night so they can have a beer with their friends in the pub?

Exercise 10. Artificial Intelligence writing task. Write about your opinion of artificial intelligence. Try to use some of the vocabulary you learned earlier in this lesson. In your answer, include the following topics:

- 1. The potential benefits of AI.
- 2. The dangers of AI.

3. Whether AIs would be friendly, or whether they would pose a threat to us.

4. An artificial superintelligence has the potential to destroy humanity, and any research into this should therefore be banned. Do you agree or disagree?<sup>10</sup>

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<sup>&</sup>lt;sup>10</sup> https://yourenglishpal.com/blog/esl-conversation-lesson-plan-artificial-intelligence/

#### LESSON 7. REVOLUTIONARY 6G PROGRESS

"From a technical standpoint, there could potentially be a "lastG" which doesn't mean of course that this is the ultimate solution to all human problems. It means that it's designed in such a way that every new technology which will happen in the future can be added to the "lastG" in a plug-and-play manner as we move to software-based solutions."

Marcin Dryjanski, a co-founder of Grandmetric, a wireless architect

#### Exercise 1. Discuss the questions in pairs or small groups.

- 1. Do you know anyone who doesn't own a smartphone?
- 2. Does your phone have a data plan? Do you browse the internet when out and about?
  - 3. Is your internet connection at home fast and stable?
- 4. If you didn't have access to the internet, would it be difficult for you to do your job or to study?
  - 5. Can you think of any disadvantages of having the internet on your phone?

# Exercise 2. Pre-listening task: vocabulary focus Match words with the correct definitions.

# hertz: a unit for measuring the frequency of sound waves terahertz: a unit of frequency equal to one trillion hertz

| 1. sub-terahertz (n) | a. connected with or like the countryside                              |  |  |
|----------------------|--|--|--|
| 2. fragile (adj.)    | b. the rate at which a sound or electromagnetic wave moves up and down |  |  |
| 3. distortion (n)    | c. a major improvement in a particular field                           |  |  |

| 4. mixer (n)        | d. easily broken or damaged              |  |  |
|---------------------|--|--|--|
| 5. bandwidth (n)    | e. a device used to blend or combine     |  |  |
|                     | different signals                        |  |  |
| 6. breakthrough (n) | f. the range of frequencies occupied by  |  |  |
|                     | a modulated radio-frequency signal or a  |  |  |
|                     | line or channel of communication         |  |  |
| 7. rural (adj.)     | g. frequencies below the terahertz range |  |  |
| 8. frequency (n)    | h. a change in the form or shape of      |  |  |
|                     | something                                |  |  |

# Exercise 3. Listening for specific information. Listen to the report. Fill in the gaps in each sentence with ONE word from the vocabulary section.

| 1. Information has been sent across a distance of 1.2 miles at               |
|--|
| frequencies.   |
| 2. Until now, creating a stable connection at such has been very             |
| difficult, with the signal becoming more                                     |
| 3. Typically, a signal sent wirelessly is mixed to remove                    |
| 4. However, the researchers found that their couldn't handle the             |
| increase in power, so they removed it.                                       |
| 5. The marks a huge improvement on existing technology.                      |
| 6. In the experiment, the research team were able to achieve frequencies and |
| over 100 times better than 5G networks.                                      |
| 7. The research does, however, offer hope to those who live in               |
| communities. <sup>11</sup>   |

# Exercise 4. Listening for comprehension. Listen to the report again. Select the correct answer from the options given.

- 1. Who did the researchers work with to solve the problem of long-distance wireless communications at a terahertz level?
  - a. NASA and the US Air Force
  - b. private telecommunications companies
  - c. universities and research institutions
  - d. local government agencies

 $<sup>^{11}\</sup> https://www.linguahouse.com/esl-lesson-plans/general-english/revolutionary-6g-progress-announced$ 

- 2. How did the team solve the problem of creating a stable connection at subterahertz frequencies?
  - a. by using a new type of mixer
  - b. by removing the mixer
  - c. by using a different type of radio
  - d. by increasing the power of the signal
  - 3. How does the new technology compare to existing 5G networks?
  - a. it is less advanced
  - b. it has the same capabilities
  - c. it is capable of reaching much greater frequencies and bandwidths
  - d. it is much more expensive than 5G
- 4. What are the implications of this research for people living outside cities and towns?
  - a. it will make it more difficult for them to access the internet
  - b. it will have no effect on them
  - c. it offers hope for high-speed internet access
  - d. it will cause interference with other communications in rural areas
- 5. How much further does the research need to go to make 6G available globally?
  - a. there are a few more challenges
  - b. there is still a long way to go
  - c. it's already available
  - d. the research is in its very initial stage



#### Exercise 5. Reading: general vocabulary.

#### Part A: Match the words in bold with the correct definitions.

- 1. You should consider wearing sunglasses if you're going to be outdoors for a long time to protect your eyes from **radiation**. (n)
- 2. My wife **reassured** me that nothing bad was going to happen. I always get very anxious when we travel by plane. (v)
- 3. I'm so proud of my daughter. She's started a **campaign** to encourage her classmates to start recycling. (n)
- 4. Social media companies should do more to deal with dangerous **conspiracy theories**. (n)
- 5. Often, accidents in the home are a result of electrical goods not being **maintained** properly. (v)
- 6. Janet is well-known within the **community**. She's always helping out! (n)
- 7. Our boss **claimed** that he was going to pay us for the extra work, but we haven't seen any money yet. (v)
- 8. I wish Jessica hadn't **convinced** me to go out last night. I have a terrible headache today! (v)
- a. persuade somebody to do something
- b. energy that is emitted as waves or particles, such as light, heat or X-rays
- c. do something to remove fear or doubts from someone.
- d. the belief that an event or situation is the result of a secret plan made by powerful people
- e. keep something in good condition or to keep it going
- f. a group of people who live in the same area and share common interests or characteristics
- g. a series of events or activities organised to achieve a particular goal or objective
- h. say that something is true although it has not been proved and other people may not believe it

# Part B: Complete the sentences below with the words from the above exercise. You may need to change the form of the word.

| 1. The company lau     | nched a to raise awareness about their new                   |
|------------------------|--|
| product.               |  |
| 2. I tried to          | _ my parents to let me go to the festival, but they said no. |
| 3. My cousin           | to have seen a UFO, but no one believed him.                 |
| 4. He was banned fro   | m Facebook for sharing a popular                             |
| 5. The doctor tried to | me that everything was going to be alright.                  |
| 6. We need to          | our equipment regularly to ensure it works properly.         |
| 7. The levels of       | on Mars are much higher than on Earth.                       |
| 8. The can             | ne together to help rebuild the damaged playground.          |

## Discuss these questions in pairs.

- 1. Can you think of any well-known conspiracy theories? Do you consider this theory to be dangerous?
- 2. Do you try to maintain your electronic equipment, or do you just replace it when it breaks?
  - 3. Are you involved with your local community? If not, would you like to be?
- 4. If somebody claims something is true online, should they have to provide evidence?
  - 5. Is it easy to convince you to do something you don't really want to do?
  - 6. Can you think of a successful advertising campaign from the last 20 years?
- 7. If your friend is worried about something, what could you do to reassure them?

# Exercise 6. Reading for general understanding

Part A: You are going to read a text about people's opinions on high-speed internet access. Scan the text quickly and match the profession with the correct speaker or speakers. One profession cannot be matched to any of the four speakers in the text and should be marked 'Not given'.

| Fiona        | Giselle    | Not given | Patrick | Rashid |  |
|--------------|------------|-----------|---------|--------|--|
| 1. Student _ |            |           |         |        |  |
| 2. Shop assi | istant     |           |         |        |  |
| 3. Engineer  |            |           |         |        |  |
| 4. Universit | y lecturer |           |         |        |  |
| 5. Web desi  | igner      |           |         |        |  |

Part B: Look at the following sentence. In pairs, discuss the meaning of the underlined phrase. Do you agree or disagree with the statement? Is there anything that you take for granted in your life?

I think that young people often **take** the internet **for granted**.

## Is high-speed internet necessary for all? We asked four members of the public

#### A. Rashid, 27

I think that Internet access is a basic human right at this point. So many jobs require you to be online at least partof the time and I believe that in the future, it will be necessary for all kinds of work. It seems very unfair then, thatalmost 3 billion people have no access to the internet – can you believe that? I design websites for a living and ifmy connection goes down even for a few hours, my clients could lose a lot of money. Me and a few friends set upa campaign group to try to convince the government to ensure that everyone can connect, no matter where they are in the country. When 6G comes out, I think it will make it much easier for everyone to get online – as long as those in power allow them to do so.

#### B. Patrick, 35

A few years ago, I remember a big fuss about 5G. Some people seemed certain that it would make everything easyfor us, but others claimed it was potentially dangerous technology. I saw some videos online in which people saidthat 5G towers would make us all ill. Now, I don't usually believe in conspiracy theories, but it does seem to methat we take a lot of new technology for granted. We don't really question the fact that we have a little device inour pockets, or next to our bed, or even against our ear, that may well be harmful. I'm not an engineer – I workin a supermarket – but I think it would be helpful if governments published research to reassure us that 5G – and whatever comes after – isn't harmful.

# C. Giselle, 41

We're living in the age of misinformation, aren't we? I'm not sure what went wrong, but part of the problem Ithink, is a lack of education about the way things work on a basic level. Instead of knowing how to maintain acar or cook a curry, people look for a guide on YouTube. Anything you don't understand? Google it. You'll forgetit 5 minutes later but by then, the information has served its purpose. I think this, at least partially, explains whysome people are so drawn to conspiracy theories. I teach a course on this exact subject at university, in fact. Lastsemester we covered the 5G topic. Did you know that,

in some countries, people actually attacked 5G towersbecause they thought they were spreading harmful radiation? There's more harmful radiation coming from ourown sun!

#### D. Fiona, 21

I grew up in a rural community. Well, that's a bit generous — our nearest neighbour was five miles away. We didn'thave access to the internet until I was 9, although I didn't really care. I loved playing outdoors on the farm withmy brothers and sisters. Although the internet changed my life somewhat, I kind of miss the days when we didn'thave it at home. I don't own a smartphone at the moment — I did for a while when I first started university, but nowI'm in my second year, I don't feel the need to have one. If I need to do something online, I have my laptop. WhenI'm with my friends I'd rather be present, instead of constantly checking my phone. I know that there are manypositive things about the internet but think of all the time wasted. How many people would have written novels, designed new medicines or found love if they hadn't been busy scrolling through cat pictures on their phones?

Sources: IFL Science, Nature.com, The Wall Street Journal

Exercise 7. Reading comprehension. Part A: Read the article again. Match statements with the correct speakers. Some statements can be matched to more than one speaker. One of the statements cannot be matched to any of the speakers and should be marked 'Not given'.

# Rashid / Patrick / Giselle / Fiona / Not Given

They mention conspiracy theories. \_\_\_\_\_
 They think that it is the government's responsibility to provide fast internet for everyone. \_\_\_\_\_
 As a young child, they didn't have internet access. \_\_\_\_\_

# Part B: For each question, choose the answer you believe best suits the speaker.

4. They think that the government should ban 5G technology. \_\_\_\_

- 1. Why is a stable internet connection important for Rashid in particular?
- a. He works for the government and needs to be able to check his emails every few hours.
- b. If his connection goes down, even for a few hours, his customers could lose money.
  - c. He works from home and shares his connection with family members.

- 2. What does Patrick think we should do about 5G technology?
- a. He thinks we should destroy the 5G towers as he believes they are making us all ill.
  - b. He believes we should stop buying mobile phones as they may be dangerous.
- c. He thinks governments should release research to reassure us about 5G technology.
  - 3. Why might Giselle think people are drawn to conspiracy theories?
  - a. She thinks that lack of education is the main reason.
- b. She believes that people are bored, and make up conspiracy theories for attention.
- c. She thinks that people need to believe in something in order to make them feel special.
  - 4. Why does Fiona think that the internet isn't an entirely positive invention?
  - a. She thinks that the internet can be dangerous.
- b. She thinks that it's often used to waste time that would have been better spent doing other things.
- c. She believes that it makes people feel lonely and stops them from connecting with others in real life.

Exercise 8. Grammar point. Read the short text below. What type of grammatical structure is the underlined sentence? Is there another example of this structure in the text?

It's difficult at the moment. Everything is becoming more expensive and the money I earnat work just isn't enough to pay all of my bills. **If I had a faster internet connection, I wouldconsider changing my career.** Maybe I could make videos for YouTube or design websites. Unfortunately, in my village the internet is very slow. If we had a little more money, we couldmove to the city where the signal is stronger, but in order to make more, I would need to workonline. I hope that my situation will improve in the future!

# Part A: Read through the description of the second conditional, then answer the questions below.

We usually use the second conditional to talk about present or future situations that are impossible or unlikely in reality.

To form the second conditional, we usually use the following structure: **if** + **past simple, would** + **infinitive** 

We can also use **'could'** instead of **'would'**, and the order may be reversed. For example:

I **could** afford to pay my bills **if** I had a better job.

- 1. The second conditional is used to:
- a. discuss present or future situations that are impossible or unlikely
- b. discuss future situations that we believe are likely to take place
- 2. We usually form the second conditional by:
- a. combining if with present simple followed by present simple
- b. combining if with the past simple, and would with the infinitive of the verb

# Part B: Complete the sentences with the correct form of the word in brackets. You may need to use more than one word for each gap.

| 1. If I          | (know) more about computer        | rs, I would be able to make my   |
|------------------|-----------------------------------|----------------------------------|
| own website.     |                                   |                                  |
| 2. I             | (learn) another language if I had | more free time.                  |
| 3. We            | (connect) with our friends and    | l family abroad, if we           |
| (have) access to | high-speed internet.              |                                  |
| 4. If I          | (have) mobile data, I             | _(talk) to my friends on the way |
| to school.       |                                   |                                  |
| 5. I             | (use) my tablet more often, if I  | (can) afford a better            |
| data plan.       |                                   |                                  |
| 6. If I          | (win) the lottery, I              | _ (buy) a new computer, a new    |
| phone and a nev  | w house. <sup>12</sup>            | · ·                              |
| -                |                                   |                                  |

Part C: What would you do if you won €10,000,000 in the lottery? Discuss in pairs using the second conditional.

58

 $<sup>^{12}\,</sup>https://www.linguahouse.com/esl-lesson-plans/general-english/revolutionary-6g-progress-announced$ 

## Exercise 9. Talking Point. Discuss the following questions

- 1. Do you remember a time before the internet? How was life different?
- 2. Has high-speed internet made our lives better or worse?
- 3. Do you think that, in the 21st century, internet access is a basic human right, like access to food, water and shelter?
  - 4. If the internet disappeared tomorrow, how would it affect your life?
  - 5. Why do you think that some people believe that 5G is dangerous?
- 6. Do you think the internet has made it easier for conspiracy theories to spread around the world?
- 7. Has the internet made people less capable of doing basic things without needing to watch a YouTube instruction video?<sup>13</sup>



 $<sup>^{13}\</sup> https://www.linguahouse.com/esl-lesson-plans/general-english/revolutionary-6g-progress-announced$ 

#### LESSON 8. BIG DATA AND AI

"You're either the one that creates the automation, or you're getting automated."

Tom Preston-Werner, American entrepreneur and founder of GitHub

#### **Exercise 1. Big Data Discussion.**

- 1. Why is data so important to business?
- 2. What insights can data give a business?
- 3. How does your company use data?
- 4. Do you use data in your job? What kind of data do you collect? How do you analyse it? What does it tell you?
  - 5. What do you know about big data?
  - 6. How does/can big data benefit businesses?
  - 7. What are some of the dangers of big data?
  - 8. Which social problems will big data help us solve?

# Exercise 2. Big Data & A.I. vocabulary.

**big data** (noun) – an extremely large amount of data.

**automation** (noun) – technologies that reduce human action in processes.

**machine learning** (noun) – a computer system that can learn and adapt to perform functions without being given instructions.

**data analysis** (noun – field), data analyst (noun - profession) – the collection and interpretation of data in order to gain insights; a professional who conducts data analysis.

**data storage** (noun) – the recording and retention of digital information.

**novel situation** (noun) - a new or unfamiliar situation, not encountered before.

# Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

- 1. As companies collect more and more data, they need bigger and better facilities.
- 2. \_\_\_\_\_ are used by the police to make predictions about which areas are likely to experience an increase in crime in the future.
  - 3. Machines will never be able to replace jobs that require dealing with
- 4. Many manufacturing jobs have already been lost due to \_\_\_\_\_\_, and the ones that haven't been lost have mainly moved to countries like China or Bangladesh.
- 5. Thanks to \_\_\_\_\_\_, medical diagnoses can be performed to a much greater accuracy than if a doctor made the diagnosis.
- 6. Using \_\_\_\_\_\_, advertising agencies can produce personalised adverts unique to every member of the public.

# Exercise 4. Big Data & A.I. vocabulary comprehension questions.

- 1. What are some of the best sources of big data?
- 2. Should companies use automation to reduce working hours or to increase profits?
  - 3. How could your company use machine learning to improve its processes?
- 4. Does your company employ data analysts? If so, what do they do? If not, who, if anyone, analyses your company's data?
- 5. How can companies solve the problem of an ever-growing need for more data storage?
  - 6. What novel situations might you encounter in your job?



Exercise 5. Video: The Jobs We'll Lose to Machines. You are going to watch a TED Talk by Anthony Goldbloom called "The jobs we'll lose to machines – and the ones we won't". Find the video here:



#### Courtesy of

https://www.ted.com/talks/anthony\_goldbloom\_the\_jobs\_we\_ll\_lose\_to\_machines \_and\_the\_ones\_we\_won\_t?subtitle=en

#### Exercise 6. Watch the video and after, discuss the following questions:

- 1. What tasks can computers currently do better than humans?
- 2. Which of your current work tasks will a computer be able to do better than you in the future?
  - 3. Which professions will be replaced by machines in the future?
  - 4. Which jobs will be safe from automation?
- 5. Do you think your profession will be threatened by automation in the future? Why or why not?
- 6. What degree subject would you recommend a child study at university to prepare themselves for the future?<sup>14</sup>

# Exercise 7. Big Data and Artificial Intelligence conversation questions:

- 1. How is artificial intelligence helping businesses today?
- 2. Do you think artificial intelligence could help businesses make better decisions than humans? Why or why not?
- 3. How would you feel about having an AI as a colleague? Do you think this will ever happen in the future?
- 4. Are you concerned about artificial intelligence in any way? What are some ethical concerns about the use of artificial intelligence?
- 5. How will artificial intelligence, machine learning and automation revolutionise the transport and logistics industry?

<sup>&</sup>lt;sup>14</sup> https://yourenglishpal.com/blog/business-english-conversation-lesson-plan-big-data-artificial-intelligence/

- 6. How will artificial intelligence change the defence sector?
- 7. If automation is fully implemented in manufacturing, will this sector return to developed countries? Why or why not?
- 8. How will big data, artificial intelligence and automation affect the global economy of the future?

## Exercise 8. Big Data & A.I. writing task.

Your CEO has asked you to research the prospect of using artificial intelligence technology in your company. Write a short report outlining what AI technology is currently available and how it could be used to benefit the company.



#### LESSON 9. DATA PROTECTION

"Relying on the government to protect your privacy is like asking a peeping tom to install your window blinds."

John Perry Barlow (1947 – 2018), American political activist and privacy campaigner

#### **Exercise 1. Data Protection discussion.**

- 1. What is data protection? Why is it so important in the modern day?
- 2. What are the different types of personal information that exist?
- 3. Are we sharing too much information publicly these days?
- 4. How dangerous do you think it is to put personal information on social networking sites like Facebook?
- 5. What information have you seen shared on social networking sites that you wouldn't feel comfortable sharing yourself?
- 6. Are you sure all of your personal information is secure? How do you keep your personal information safe?
  - 7. Are you always careful about what documents you throw away?
- 8. What personal information do you regularly give to companies or other organisations? How can you be sure they will keep that information safe?

# Exercise 2. Data Protection vocabulary.

**data protection** (noun) - a legal requirement to protect personal information stored on a computer system.

**biometric data** (noun) – information that relates to a person's physical or biological characteristics.

**to hack** (verb), **hacker** (noun) – to gain unauthorised access into a computer system; a person who hacks.

**to encrypt** (verb), **encryption** (noun) — to convert electronic data or communications into code that cannot be read by another person unless they have the encryption key.

**VPN** (**virtual private network**) (noun) – an encrypted internet connection that keeps sensitive communications secure and prevents activity on the internet from being traced.

**data breach** (noun) – the unauthorised release of information stolen from a computer system.

# Exercise 3. Using the vocabulary words above, complete the following sentences (remember to use the correct form of the word, e.g. verb conjugation or plural noun).

| 1. Every business needs to pay attention to laws if they don't want               |
|---|
| to face hefty compensation claims.  |
| 2 released thousands of documents from Mossack Fonseca's                          |
| computer system that showed the offshore bank accounts held by the world's elite. |
| 3. If you have any files you don't want hackers to read, it's vital that you      |
| them.   |
| 4. In 2017, Equifax suffered a which led to the social security                   |
| numbers of 145 million Americans being made public.                               |
| 5. One advantage of using a is that you can set your IP address to                |
| another country and access the Netflix library of that country.                   |
| 6. The new passport will contain including fingerprints and a retination          |
| scan to help prevent illegal migration.   |

### Exercise 4. Data Protection vocabulary comprehension questions.

- 1. What do you know about the data protection laws in your country?
- 2. What kind of biometric data is stored about you?
- 3. What are some common reasons why people hack computers?
- 4. Is all the data on your computer encrypted? If not, do you think it should be?
- 5. Do you ever use a VPN? If so, why? If not, do you think you should?
- 6. Can you think of any major data breaches? What kind of information was released?



Exercise 5. Video: Facebook's Data Scandal. You are going to watch a video by The Verge called "Facebook's Cambridge Analytica data scandal, explained". Find the video here:



Courtesy of: http://www.theverge.com

# Exercise 6. Multiple choice. While you watch the video, answer the following questions:

- 1. Mark Zuckerberg responded to the data scandal after which campaign?
- a) delete Facebook b) close Facebook c) end Facebook
- 2. Cambridge Analytica had worked on the campaign of which president?
- a) George W Bush b) Barack Obama c) Donald Trump
- 3. Authorities in which other country are investigating the data scandal?
- a) France b) Germany c) the UK
- 4. In addition to the actual user, Facebook apps allowed developers to access information on whom?
  - a) the user's family members b) the user's friends c) the user's colleagues

# **Exercise 7. Sentence completion**

- 1. By researching a user's likes, a company could begin to understand that user's \_\_\_\_\_ in order to target them with political propaganda.
- 2. In 2012, Barack Obama's campaign created an app to collect voter data but told users what it was \_\_\_\_\_.
- 3. Once it became known what Cambridge Analytica were doing, Facebook demanded that they \_\_\_\_\_ all the data they had collected.
  - 4. Facebook made it too easy for developers to get \_\_\_\_\_\_ to users' data.

#### Exercise 8. Short answers.

- 1. Who expressed regret for their part in creating Facebook?
- 2. In which year did Facebook stop developers gaining access to users' friends' data?
- 3. After how many months of not using an app will Facebook cut off developer access to your information?
  - 4. What did Mark Zuckerberg make his personal challenge for the year?

#### Exercise 9. Data Protection conversation questions.

- 1. How could criminals use your personal information?
- 2. What kind of personal information do websites collect?
- 3. How do you keep the information on your computer safe?
- 4. How often do you change the password on your computer? Do you ever use the same passwords for different sites?
- 5. What should you do if you found out your email, username or password had been subjected to a data breach?
- 6. Should personal data be registered when people vote to prevent election fraud?
  - 7. Do you think your government takes data protection seriously?
- 8. How would the world be different if all information (either personal, corporate, or government) were made public?

Exercise 10. Data Protection writing task. Write about your opinion of data protection. Try to use some of the vocabulary you learned earlier in this lesson. In your answer, you could include some of the following topics:

- 1. The kind of personal data that exists.
- 2. How personal data can be misused.
- 3. How to keep personal data safe.
- 4. These days, people share too much personal information on social media without worrying about the consequences. What kind of personal data do people regularly share on social media? How might this personal data put people at risk?

### **LESSON 10. CYBERCRIME**

"If you spend more on coffee than on IT security, you will be hacked." <sup>15</sup>

Richard Clarke, an American national security expert, novelist, and former government official

Exercise 1. Watch this short video by TV AD | Barclays about digital safety and then answer the questions.



Courtesy of @BarclaysUK



- 1. Where do you think this video was shown and why?
- 2. What is the main message?
- 3. What sort of people do you think particularly need to hear about this type of scam?<sup>16</sup>

<sup>&</sup>lt;sup>15</sup> https://www.cybertalk.org/2023/01/02/19-of-the-funniest-quotes-about-cyber-security-tech/

<sup>&</sup>lt;sup>16</sup> https://www.linguahouse.com/ru/esl-lesson-plans/general-english/cyber-crime

# Exercise 2. Reading 1. Read this short introduction to cybercrime and find words which match the meanings below.

Cybercrime is a way of committing crimes using computer networks, including via e-mail, websites, social media apps and even phone calls. It's a very broad category: some of the criminals involved are operating in a coordinated way while others are working on their own, and their actions may involve a high level of technical skill, for example hacking into a secure computer system or just a willingness to try, for example scamming someone on social media. These cons are evolving all the time, and it is proving almost impossible for lawmakers and the police to keep up and for ordinary people to spot what's real and what's fake.

|       | _            |           |         | _  |      |     |        | -     |    |          | _  |         |
|-------|--------------|-----------|---------|----|------|-----|--------|-------|----|----------|----|---------|
|       | 2. a synonym | for scams | S       |    | _    |     |        |       |    |          |    |         |
| 3     | 3. something | that appe | ears to | be | real | but | isn't, | which | is | intended | to | deceive |
| peopl | e            |           |         |    |      |     |        |       |    |          |    |         |

1. gaining access to a computer or computer system without permission

## Choose the best number to complete the sentences about cybercrime in 2023.

- 1. If cybercrime were a country, it would have the **third / fifth / seventh** largest economy in the world.
- 2. Cybercrime increased by 100% / 115% / 125% during the Covid-19 pandemic.
- 3. In the UK, 26% / 31% / 43% of businesses and 26% / 31% / 43% of charities are attacked at least once a week.
  - 4. The average cost of each of these cyber-attacks is £4200 / £5300 / £6400.
  - 5. Hackers attack a computer an average of every 39 seconds / minutes / hours.



# Which information is the most surprising for you?

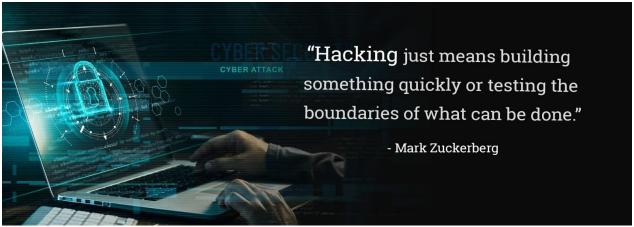
# Exercise 3. Vocabulary. Complete the following definitions.

| a) harms others | b) threatening someone | c) someone is to pay |
|-----------------|------------------------|----------------------|
| d) cannot read  | e) asked               | f) wrong or cruel    |
| g) dishonest    | h) release someone or  | i) afford            |
|                 | something              |                      |

| 1. <b>credit rating (n):</b> a score that shows how likely back money tha |
|---|
| they've borrowed  |
| 2. wrongdoing (n): an action that or is against the law                   |
| 3. <b>fraudulent</b> (adj): and illegal                                   |
| 4. costly (adj.): expensive, difficult to                                 |
| 5. extort (v): get something by or forcing them to pay money              |
| 6. ransom (n): money that someone pays to a criminal to they have taken   |
| 7. unsolicited (adj.): not for  |
| 8. <b>encrypt</b> (v): put information into a form that people            |
| 9. <b>abuse (v):</b> treat someone or something in a way                  |

## Answer the following questions.

- 1. *Abuse* is defined here as a verb, but the noun has the same form. How are they pronounced differently?
  - 2. Which other word in the exercise has the same form as a noun and a verb?
  - 3. What is unusual about the ending of *costly*?
- 4. What do you think we call a person who scams other people? What about someone who hacks into computer systems?



# Exercise 4. Reading 2. Work in A/B/C groups. You will each read a text about a different aspect of cybercrime.

| extort      | credit rating | wrongdoing |
|-------------|---------------|------------|
| costly      | abuse         | ransom     |
| unsolicited | fraudulent    | encrypt    |

#### Group A

- 1. First, look through your information and use three of the items from the word box to complete the text. Look back at the Vocabulary stage of the lesson if you need to. Your teacher will tell you the answers.
- 2. Then prepare a mini presentation about your information for the other students in your group, including the underlined items in the test. You will need to cover your information and remember what to say, using your own words.
  - 3. Listen to the other two presentations and ask questions.
  - 4. Read through the other two texts and add the missing words.

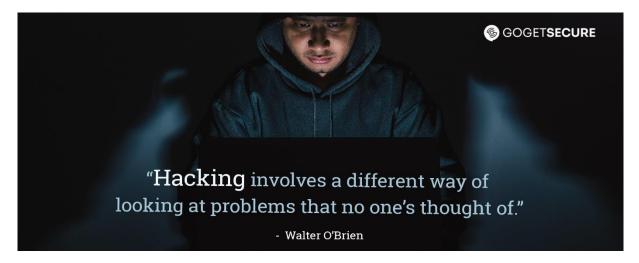
| When scammers target <u>individuals</u> , their goal is to get your personal                    |  |  |  |  |  |
|---|--|--|--|--|--|
| information like date of birth, passport or ID numbers, bank details, and passwords             |  |  |  |  |  |
| so they can steal your identity or access your bank account. Their actions can affect           |  |  |  |  |  |
| your <sup>1</sup> . You should also beware of <sup>2</sup> emails, phone calls or               |  |  |  |  |  |
| messages asking for personal details – this is a type of social engineering called              |  |  |  |  |  |
| phishing. Those that claim to be from a bank may ask you to take urgent action,                 |  |  |  |  |  |
| while others may be from an organisation that wants to refund you some money                    |  |  |  |  |  |
| or give you a prize, but either could send you to a fake website. Remember, if it               |  |  |  |  |  |
| sounds too good to be true – it probably is. There are also more personal types of              |  |  |  |  |  |
| phishing, where you receive a message from someone who claims to be closely                     |  |  |  |  |  |
| related to you, asking you to send money or reveal personal information. A                      |  |  |  |  |  |
| variation of this is called <u>catfishing</u> , a scam designed to <sup>3</sup> someone's trust |  |  |  |  |  |
| and exploit them romantically or financially.   |  |  |  |  |  |

| extort      | credit rating | wrongdoing |
|-------------|---------------|------------|
| costly      | abuse         | ransom     |
| unsolicited | fraudulent    | encrypt    |

#### Group B

- 1. First, look through your information and use three of the items from the word box to complete the text. Look back at the Vocabulary stage of the lesson if you need to. Your teacher will tell you the answers.
- 2. Then prepare a mini presentation about your information for the other students in your group, including the underlined items in the test. You will need to cover your information and remember what to say, using your own words.
  - 3. Listen to the other two presentations and ask questions.
  - 4. Read through the other two texts and add the missing words.

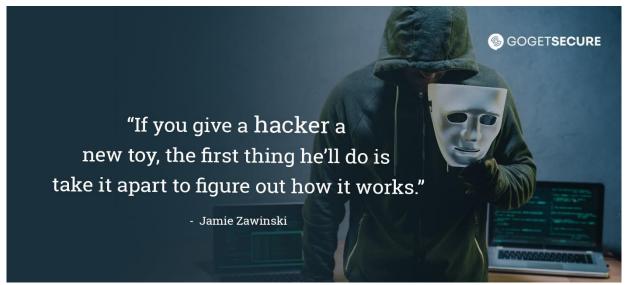
Organisational victims of cybercrime could include large institutions like a bank or major companies, service providers like schools, hospitals or charities, or even small businesses and start-ups. Hackers may gain access to a company's database and threaten to steal, delete or \_\_\_\_\_\_\_\_ data until a \_\_\_\_\_\_\_\_ is paid. The goal is to \_\_\_\_\_\_\_\_ money and may also involve the use of botnets to crash a popular website at an inconvenient time, for example when tickets for a popular sports or music event go on sale. This results in a denial of service message to ordinary users and loss of income or reputation for the business or organisation. Alternatively, hackers may install spyware on individual or organisational devices in order to steal confidential commercial information about the company or personal information about its customers. Money may be demanded, or the data may simply be stolen. The individual or company may be unaware that this data breach has occurred.



| extort      | credit rating | wrongdoing |
|-------------|---------------|------------|
| costly      | abuse         | ransom     |
| unsolicited | fraudulent    | encrypt    |

#### **Group C**

- 1. First, look through your information and use three of the items from the word box to complete the text. Look back at the Vocabulary stage of the lesson if you need to. Your teacher will tell you the answers.
- 2. Then prepare a mini presentation about your information for the other students in your group, including the underlined items in the test. You will need to cover your information and remember what to say, using your own words.
  - 3. Listen to the other two presentations and ask questions.
  - 4. Read through the other two texts and add the missing words.



Exercise 5. Language in context. You saw these sentences in the texts A-C. Add the missing word and then use the context of the sentence to explain the meaning of the items in bold. How formal is each item?

| <ol> <li>Remember, if it too good to be true – it probably is.</li> <li>This in a denial of service message to ordinary users and loss of income or reputation for the business or organisation.</li> <li>Even worse, they may not receive any items at all, while the dishonest seller has pocketed the price.</li> </ol>  |
|---|
| Exercise 6. Talking point. Even though cybercrime is a massive problem, there are some steps we can all take to avoid becoming victims. Work in pairs or small groups to match each piece of advice to one or more of the situations you read about in texts A-C.   |
| 1. Avoid using unsecured networks or public computers to do your online   |
| banking.  |
| 2. Scammers are everywhere – check individual profiles carefully for each   |
| transaction   |
| 3. Don't send any goods, especially if they're costly, until the payment has  |
| reached your bank account   |
| 4. In unsolicited e-mails, be suspicious of unusual e-mail or fake website  |
| addresses   |
| 5. Make sure you back up important data so you can continue to work even if   |
| under attack from hackers   |
| 6. Offer guidance to everyone in the company about how to create secure   |
| passwords   |
| 7. Regularly check your bank statements and credit rating status  |
| 8. Report any concerns about possible wrongdoing to line managers or the IT   |
| Department  |
| 9. Use a trusted website and pay attention to the reviews, but remember that  |
| some may be fraudulent  |
| Think of at least one more piece of advice for each situation. Use vocabulary   |
| Constant of the second of the |

Exercise 7. Optional extension. Review the pronunciation of vocabulary words from this lesson. Add words to the table according to the vowel sound in the stressed syllable, as in the example.

| con        | costly      | (credit) rating |
|------------|-------------|-----------------|
| encrypt    | extort      | fake            |
| fraudulent | pocketed    | ransom          |
| scam(mer)  | unsolicited | wrongdoing      |

| sound | word example: hack(er) |
|-------|------------------------|
| /æ/   | 1<br>2                 |
| /I/   | 3<br>4                 |
| /ɒ/   | 5<br>6<br>7<br>8       |
| /ɔ:/  | 9 10                   |
| /eɪ/  |                        |

# ПІДГОТОВКА ДО СКЛАДАННЯ ЄВІ – ЄДИНОГО ВСТУПНОГО ІСПИТУ З АНГЛІЙСЬКОЇ МОВИ

#### ЗАГАЛЬНА ІНФОРМАЦІЯ

У 2024 році для вступу на магістерські програми потрібні результати єдиного вступного іспиту (ЄВІ). Це випробування містить тест загальної навчальної компетентності (ТЗНК) і тест з іноземної мови (англійської, німецької, французької або іспанської на вибір вступника).

Український центр оцінювання якості освіти затвердив загальні характеристики тестів ЄВІ, якими визначено кількість завдань з кожного тесту, форми тестових завдань, час, відведений на їх виконання, схеми нарахування балів.

Завдання з іноземних мов укладено відповідно до Програми єдиного вступного іспиту з іноземних мов.

Блок з іноземної мови (англійської, німецької, французької або іспанської на вибір вступника) складається з двох частин: читання і використання мови.

Тест містить 30 запитань трьох форм:

### Завдання на встановлення відповідності (запитання 1-6).

У завданні треба дібрати твердження / ситуації до оголошень / текстів; запитання до відповідей або відповіді до запитань. Його вважають виконаним, якщо учасник / учасниця позначив / позначила відповідь і підтвердив / підтвердила свій вибір.

# Завдання з вибором однієї правильної відповіді (запитання 7–11).

Завдання має основу та чотири варіанти відповіді, з яких лише один правильний. Його вважають виконаним, якщо учасник / учасниця позначив / позначила відповідь і підтвердив / підтвердила свій вибір.

# Завдання на заповнення пропусків у тексті (запитання 12-30).

У завданні потрібно доповнити речення в тексті словосполученнями / словами з наведених варіантів. Його вважають виконаним, якщо учасник / учасниця позначив / позначила відповідь і підтвердив / підтвердила свій вибір.

На виконання завдань тесту відведено 45 хвилин.

За завдання з іноземної мови згідно зі схемою нарахування балів буде нараховано по 1 тестовому балу за кожну правильну відповідь на завдання з вибором однієї правильної відповіді, по 1 тестовому балу за кожну правильно визначену логічну пару в завданнях на встановлення відповідності та по 1 тестовому балу за кожний правильно заповнений пропуск у тексті.

Отже, за виконання завдань блоку з іноземної мови можна отримати від 0 до 30 балів.

Свої результати (тобто кількість набраних тестових балів за правильно виконані завдання) учасники тестування будуть знати після завершення роботи над тестами ЄВІ. За таблицею переведення тестових балів результат кожного блоку буде переведено в рейтингову оцінку за шкалою 100–200 балів. 17

## ПРОГРАМА ЄДИНОГО ВСТУПНОГО ІСПИТУ З ІНОЗЕМНИХ МОВ

для вступу на навчання для здобуття ступеня магістра на основі здобутого ступеня вищої освіти (освітньо-кваліфікаційного рівня бакалавра)

#### Вступ

Програма єдиного вступного іспиту створена з урахуванням Загальноєвропейських рекомендацій з мовної освіти (рівень В1-В2). Зміст завдань для здійснення контролю якості сформованості іншомовної комунікативної компетентності уніфіковано за видами і формами завдань. У Програмі враховано особливості англійської, іспанської, німецької та французької мов.

Об'єктами оцінки є мовленнєва компетентність у **читанні**, а також мовні **лексичні та граматичні компетентності**. Зміст тестових завдань ґрунтується на автентичних зразках літературного мовлення, прийнятого в країнах, мову яких вивчають, відповідно до сфер спілкування і тематики текстів, визначених цією Програмою.

# Учасники єдиного вступного іспиту

У єдиному вступному іспиті з іноземної мови беруть участь особи, які бажають вступити на навчання для здобуття ступеня магістра на основі здобутого ступеня вищої освіти (освітньо-кваліфікаційного рівня спеціаліста), (далі – кандидати).

<sup>&</sup>lt;sup>17</sup> https://testportal.gov.ua/yedynyj-vstupnyj-ispyt-2/

#### Мета єдиного вступного іспиту

Визначити результати навчання кандидатів з іноземної мови за шкалою 100-200 балів на основі кількості балів, набраних ними за виконання завдань предметного тесту з іноземної мови.

#### Загальна характеристика складових тесту

#### Частина I. Читання.

**Мета** — виявити рівень сформованості вмінь кандидатів самостійно читати і розуміти автентичні тексти за визначений проміжок часу.

Завдання для визначення рівня сформованості іншомовної компетентності в читанні зорієнтовані на різні стратегії: з розумінням основної інформації (ознайомлювальне читання), повної інформації (вивчальне читання) та пошук окремих фактів (вибіркове читання).

Для створення тестових завдань використовують автентичні тексти з друкованих періодичних видань, інтернет-видань, інформаційно-довідкових і рекламних буклетів, художньої літератури.

Тексти для ознайомлювального читання можуть містити до 5 % незнайомих слів, а для вивчального та вибіркового читання — до 3 %, про значення яких можна здогадатися з контексту за словотворчими елементами та за співзвучністю з рідною мовою (слова-інтернаціоналізми).

Загальний обсяг текстів становить до 2 500 слів.

У предметних тестах оцінюють уміння кандидатів розуміти прочитаний текст, виокремлювати ключову інформацію, узагальнювати зміст прочитаного, робити висновки на основі прочитаного.

# Кандидат уміє:

- читати текст і визначати мету, ідею висловлення;
- читати (з повним розумінням) тексти, побудовані на знайомому мовному матеріалі;
- читати та виокремлювати необхідні деталі з текстів різних типів і жанрів;
  - диференціювати основні факти та другорядну інформацію;
  - розрізняти фактичну інформацію та враження;
  - розуміти точки зору авторів текстів;
  - працювати з різножанровими текстами;
- переглядати текст або серію текстів з метою пошуку необхідної інформації для виконання певного завдання;

- визначати структуру тексту й розпізнавати логічні зв'язки між його частинами;
- встановлювати значення незнайомих слів на основі здогадки, схожості з рідною мовою, пояснень у коментарі.

### Частина II. Використання мови

**Мета** – виявити рівень сформованості мовленнєвих і мовних граматичних і лексичних компетентностей кандидатів.

#### Кандидат уміє:

- аналізувати й зіставляти інформацію;
- правильно вживати лексичні одиниці та граматичні структури;
- встановлювати логічні зв'язки між частинами тексту.

Лексичний мінімум вступника складає 2 500 одиниць відповідно до сфер спілкування і тематики текстів, визначених цією Програмою.

# Сфери спілкування і тематика текстів для читання та використання мови

#### І. Особистісна сфера

Повсякденне життя і його проблеми.

Сім'я.

Родинні стосунки.

Характер людини.

Помешкання.

Режим дня.

Здоровий спосіб життя.

Дружба, любов.

Стосунки з однолітками, у колективі.

Світ захоплень.

Дозвілля, відпочинок.

Особистісні пріоритети.

Плани на майбутн $\epsilon$ , вибір професії.

# II. Публічна сфера

Погода.

Природа.

Навколишн $\epsilon$  середовище.

Життя в країні, мову якої вивчають.

Подорожі, екскурсії.

Культура й мистецтво в Україні та в країні, мову якої вивчають.

Спорт в Україні та в країні, мову якої вивчають.

Література в Україні та в країні, мову якої вивчають.

Засоби масової інформації.

Молодь і сучасний світ.

Людина і довкілля.

Одяг.

Покупки.

Харчування.

Науково-технічний прогрес, видатні діячі науки.

Україна у світовій спільноті.

Свята, пам'ятні дати, події в Україні та в країні, мову якої вивчають.

Традиції та звичаї в Україні та в країні, мову якої вивчають.

Видатні діячі історії та культури України та країни, мову якої вивчають.

Визначні об'єкти історичної та культурної спадщини України та країни, мову якої вивчають.

Музеї, виставки.

Живопис, музика.

Кіно, телебачення, театр.

Обов'язки та права людини.

Міжнародні організації, міжнародний рух.

## III. Освітня сфера

Освіта, навчання, виховання.

Студентське життя.

Система освіти в Україні та в країні, мову якої вивчають.

Робота і професія.

Іноземні мови в житті людини.

## Граматичний інвентар. Англійська мова

#### Іменник

Граматичні категорії (однина та множина, присвійний відмінок).

Іменникові словосполучення.

Лексичні класи іменників (власні та загальні назви: конкретні, абстрактні іменники, речовини, збірні поняття).

## Артикль

Означений і неозначений.

Нульовий артикль.

#### Прикметник

Розряди прикметників.

Ступені порівняння прикметників.

#### Числівник

Кількісні, порядкові та дробові числівники.

#### Займенник

Розряди займенників.

#### Дієслово

Правильні та неправильні дієслова.

Спосіб дієслова.

Часо-видові форми.

Модальні дієслова.

Дієслівні форми (інфінітив, герундій, дієприкметник).

Конструкції

дієслівними формами (складний додаток, складний підмет, складний присудок).

## Прислівник

Розряди прислівників.

Ступені порівняння прислівників.

## Прийменник

Типи прийменників.

# Сполучники

Види сполучників.

#### Речення

Прості речення.

Складні речення.

Безособові речення.

Умовні речення (0, I, II, III типів).

# Пряма й непряма мова

Словотвір<sup>18</sup>

COLONS ADJECTIVES WORDS

GRAMMAR

VERBS NOUNS SPELLING

<sup>&</sup>lt;sup>18</sup> https://mon.gov.ua/storage/app/media/vishcha-osvita/vstup-2022/Prohramy-YEFVV/Zatverdzheni.prohramy.YEFVV/11.02/Pro.zatv.Prohr.predm.TZNK-nalaz-158-11.02.2022.pdf

# ЄВІ-2024: ДЕМОНСТРАЦІЙНИЙ ТЕСТ

#### READING

#### TASK 1

Read the texts below. Match choices (A-H) to (1-6). There are two choices you do not need to use. Confirm your choices.

#### **Unusual Libraries**

#### 1 Biblioburro

It would be fun to check a mobile rural Colombia. library in Biblioburro is being operated by Luis Soriano, a primary school teacher, during his spare time. Witnessing kids, wearing a genuine smile each time he visits their villages in rural Colombia, would surely anybody's heart. Using two donkeys, Alfa and Beto, to carry loads of books, Soriano spends four hours on each trip just to reach those remote places.

#### 3 Albena Beach Library

Nothing says "summer vacation" like the sun, sea, sand, and a good storybook, which is exactly why Herman Kompernas decided to build a library right on the beach. The library is quite extensive: it offers holiday goers who visit the Bulgarian Black Sea resort of Albena over 2,500 books in ten different languages. Guests can borrow the books at no cost, as long as they also

#### 2 Epos

In Norway, small. many communities that live on islands in the fjords are virtually isolated from world in winter. These communities are too small to each have their own library, so, when the inhabitants of the Hordaland County were offered a book boat in 1959, Epos was born. Nowadays, the boat travels to 250 small hamlets across Norway, bringing books, culture and entertainment to the people.

#### 4 The Boston Athenaeum

1807. Built in the Boston Athenaeum is among the oldest and distinguished independent libraries and cultural institutions in the United States. It has one of the unique library names. It added an art gallery in 1827, began running yearly exhibitions of American and European art, and by the mid-1800s found itself not only at the centre of Boston's culture scene but also one of the largest libraries in the US. It leave their own (finished) holiday reads behind for others.

hosts exhibition programmes and even concerts.

#### 5 Reading Club 2000

Reading Club 2000 started when Hernando "Nanie" Guanlao thought of a way to honour and preserve the memory of parents his inculcated in him the love for reading. He gathered his old textbooks and set them outside his Manila residence to test if the community would be interested to borrow and read them. They were. 12 years later Nanie's library grew to 2,500 contain books. As additional service, he also runs a "book bike" service, where delivers books to poor areas in Manila.

#### 6 Sandro Penna Library

That is not an alien ship you are staring at. It is not a pink bubble gum candy designed by hello kitty, either! That is a house of books providing library services for the people of Perugia, Italy. The public library is named after the poet Sandro Penna. It features rose-coloured glass walls designed to let sunlight in during daytime, and at night, it creates a rare glow. The architect who designed it, Italo Rota, made the three-story disc to exude an appearance of an alien flying saucer.<sup>19</sup>

## Which library\_\_\_\_\_?

A contains the founder's book collection

**B** is named after its designer

C bears some similarity to a UFO

**D** is transported by a vessel

E encourages sharing books

**F** is delivered by animals

G holds annual exhibitions in winter

**H** offers live performances

<sup>19</sup> https://testportal.gov.ua//wp-content/uploads/2023/05/YEVI-2023\_angl\_mova\_demo.pdf

#### READING

#### TASK 2

Read the text below. For questions (7-11) choose the correct answer (a, b, c or d). Confirm your choice.

#### **A Brief History of Pearls**

Many thousands of years ago, long before written history, human beings probably discovered the first pearl while the seashore for food. searching Throughout history, the pearl, with its warm inner glow and shimmering, has been one of the most highly prized and desired gems. Countless references to the pearl can be found in the religions and mythology of cultures from the earliest times. Legend has it that the ancient Egyptian Queen Cleopatra dissolved a single pearl in a glass of wine and drank it, simply to prove to Mark Antony, the Roman General visiting her palace, that she could swallow the wealth of an entire nation in just one meal.

In ancient Rome, pearls were considered a symbol of wealth and social standing. The Greeks valued the pearl for both its extraordinary beauty and association with love and marriage.

During the Dark Ages, while ladies from wealthy families adored delicate pearl necklaces, gallant knights often wore pearls into battle. They believed the magic of these glossy gems would keep them unharmed. The Renaissance saw the royal courts of

- 7. What is mentioned about pearls in **PARAGRAGH 1**?
- **A** Pearls were used as currency in the earliest times.
- **B** Seamen caught tons of shells to find prized gems.
- C The value of a pearl could equal a country's wealth.
- **D** Pearls were used as ingredients in cooking seafood.
- **8.** Why did Cleopatra drink a glass of wine with a pearl dissolved in it?
- A to boost her immunity
- B to preserve her beauty
- C to become famous
- **D** to impress her guest
- **9.** Why did medieval warriors bring pearls to battlefields?
- A to prevent their defeat
- B to raise their fighting spirit
- C to show their military rank
- **D** to protect themselves from wounds
- **10.** How did Renaissance aristocrats ensure that pearls could be worn only by them?
- **A** They set legal limits on wearing pearls.
- **B** They offered commoners man-made pearls.
- **C** They stopped selling family pearls.
- **D** They charged very high prices for pearls.

Europe full of pearls. Because pearls were so highly regarded, a number of European countries actually passed laws forbidding anyone but the nobility to decorate themselves with pearls.

During the European expansion into the New World, the discovery of pearls in Central American waters added to the wealth of Europe. Unfortunately, wish for the sea-grown gems resulted in the reduction of virtually all the American pearl oyster populations by the 17th century. Until the early 1900s, natural pearls were accessible only to the rich and famous. In 1916, famed French jeweller Jacques Cartier bought his landmark store on New York's famous Fifth Avenue by trading two pearl necklaces for the valuable property. But today, with the of development pearl cultivating industry, pearls are available and affordable to all.<sup>20</sup>

- **11.** Which statement is **TRUE**, according to **PARAGRAGH 3**?
- **A** Jacques Cartier became famous due to his pearl necklaces.
- **B** Pearls stopped being a status symbol in the 20th century.
- C Pearl oyster hunting made American population richer.
- **D** Europeans introduced pearl fashion into Central America.

 $<sup>^{20}\</sup> https://testportal.gov.ua//wp-content/uploads/2023/05/YEVI-2023\_angl\_mova\_demo.pdf$ 

# USE OF ENGLISH

# TASK 3

Read the text below. For questions (12-21) choose the correct answer (a, b, c or d). Confirm your choice.

| Lady Tarzan   | 12 | A            | clean         |
|---|----|--------------|---------------|
| A girl from India knows how to speak to                   |    | В            | easy          |
| elephants, a skill that comes in (12) more often          |    | $\mathbf{C}$ | clever        |
| than you would think. Here is a language you never got    |    | D            | handy         |
| the (13) to learn in school!                              | 13 | A            | variation     |
| Several years ago, a herd of 11 elephants from            |    | B            | option        |
| nearby forests entered a residential area in the city of  |    | $\mathbf{C}$ | selection     |
| Rourkela. Before the wild animals could (14)              |    | D            | alteration    |
| chaos on the town and its residents, authorities got hold | 14 | A            | cause         |
| of teenage girl Nirmala Toppo, because (15),              |    | B            | do            |
| she seems to have the (16) to communicate                 |    | $\mathbf{C}$ | result        |
| with elephants.   |    | D            | lead          |
| Nirmala rushed from her village to a football field       | 15 | $\mathbf{A}$ | intentionally |
| in the city where the elephants were temporarily being    |    | В            | deliberately  |
| held.   |    | $\mathbf{C}$ | unbelievably  |
| "First I pray and then talk to the herd," the teen        |    | D            | uncertainly   |
| told the BBC. "They understand what I say. I (17)         | 16 | A            | possibility   |
| them this is not your home. You should return             |    | В            | chance        |
| where you belong."  |    | $\mathbf{C}$ | ability       |
| The elephants started walking with her. In fact,          |    | D            | case          |
| she walked with them for miles, speaking to them the      | 17 | A            | speak         |
| whole way as she (18) them back to the forest.            |    | В            | tell          |
| Elephants in the area's nearby forests frequently         |    | $\mathbf{C}$ | say           |
| invade villages and towns, destroying homes and           |    | D            | talk          |
| hurting people. The more their (19) is                    | 18 | A            | guided        |
| encroached by humans for activities like mining and       |    | В            | moved         |
| cutting down trees, the more likely they are to wander    |    | $\mathbf{C}$ | fetched       |
| out of the forest.  |    | D            | drew          |
| Nirmala, who is (20) as "Lady Tarzan",                    | 19 | A            | position      |
| speaks to the animals in her local tribal dialect of      |    | В            | system        |
| Mundaari. She explains that because tribal people and     |    | $\mathbf{C}$ | place         |
| the elephants (among other wild animals) have             |    | D            | habitat       |

| cohabited in the same area for ages, the elephants             | 20 | A            | said      |
|--|----|--------------|-----------|
| understand their language.                                     |    | B            | named     |
| Not only does this story show a brave young girl               |    | $\mathbf{C}$ | called    |
| using her skills to help both humans and animals, it (21)      |    | D            | known     |
| that it is possible for two very different species             | 21 | A            | supports  |
| to share a bond and communicate with each other. <sup>21</sup> |    | В            | proves    |
|  |    | $\mathbf{C}$ | persuades |
|  |    | D            | convinces |

# USE OF ENGLISH TASK 4

Read the texts below. For questions (22-30) choose the correct answer (a, b, c or d). Confirm your choice.

**Brainy Octopuses** 

, the US Air Force sponsored scientists to study the way octopuses

their brains. Some octopuses in laboratories seem to play with

#### objects as if they were toys – a sure sign of intelligence. Others could pick up (24) \_\_\_\_\_ skills like opening jars. Perhaps the most striking thing about their ability to change their colour and body pattern. They octopuses (25) do this to camouflage (26) \_\_\_\_\_ and also to communicate with others. They can completely change their appearance in less than a second – a striped octopus can suddenly become spotted.<sup>22</sup> 23 22 **A** the 1950th A to use **B** 1950th В use **C** the 1950s $\mathbf{C}$ using **D** 1950s have used 24 A complicate 25 A is **B** complication B are C complicating $\mathbf{C}$ were D complicated has been D **26 A** them 26 $\mathbf{C}$ theirs themselves D their B

In (22) \_\_\_

 $<sup>^{21}\</sup> https://testportal.gov.ua//wp-content/uploads/2023/05/YEVI-2023\_angl\_mova\_demo.pdf$ 

<sup>&</sup>lt;sup>22</sup> https://testportal.gov.ua//wp-content/uploads/2023/05/YEVI-2023\_angl\_mova\_demo.pdf

# **USE OF ENGLISH**

# TASK 4

Read the texts below. For questions (22-30) choose the correct answer (a, b, c or d). Confirm your choice.

|             |              | An Excit                             | ting T      | rip          |  |
|-------------|--------------|--------------------------------------|-------------|--------------|--|
| Beir        | ng fi        | om a small town, I had ( <b>27</b> ) |             | be           | en exposed to a large city such            |
| as N        | lew          | York, so my trip there was like      | <b>(28)</b> |              | an entirely new way of                     |
| life.       | In t         | he morning of the flight I felt exc  | ited a      | s we         | arrived at the airport and made            |
| our         | way          | to the gate. I watched through       | the w       | indo         | w the airport with the runway              |
| <b>(29)</b> |              | smaller as the plane ga              | ained       | altit        | ude. I felt thrilled as I realised         |
| that        | I w          | ould soon be in one of (30)          |             | c            | rities of the United States. <sup>23</sup> |
| <b>~</b> =  |              |                                      | 20          |              |  |
| <b>27</b>   | A            | ever                                 | 28          | A            | to discover                                |
|             | $\mathbf{B}$ | just                                 |             | B            | discover                                   |
|             | $\mathbf{C}$ | yet                                  |             | $\mathbf{C}$ | discovering                                |
|             | D            | never                                |             | D            | being discovered                           |
| 20          |              | 1                                    | 20          |              |  |
| <b>29</b>   | A            | become                               | <b>30</b>   | A            | most amazing                               |
|             | B            | to become                            |             | B            | the most amazing                           |
|             | $\mathbf{C}$ | had become                           |             | $\mathbf{C}$ | more amazing                               |
|             | D            | were becoming                        |             | D            | the more amazing                           |
|             |              |                                      |             |              |  |

 $<sup>^{23}\</sup> https://testportal.gov.ua//wp-content/uploads/2023/05/YEVI-2023\_angl\_mova\_demo.pdf$ 

#### TRAINING TESTS AND EXERCISES

#### **B2 READING TESTS**

#### **MULTIPLE CHOICE B2**

Multiple choice questions can be more difficult than they first appear as often two of the options are quite similar. These tips will help you to do well in multiple choice questions.

- 1. Read all the options carefully. If possible, use what you know already to work out any options that are not possible.
  - 2. Eliminate options you are certain are wrong.
- 3. Find the part of the text with the information. Find key words in the text that tell you which option is correct.
- 4. Look out for words such as always, never, might, may or could. They can help you decide if an option is correct or not.<sup>24</sup>

Read an article about people who are addicted to trading cryptocurrency, and for questions 1 to 6, choose the correct answer.

#### Crypto addicts

Cryptocurrency trading has become very popular. By buying and selling different currencies, traders can make huge profits. However, trading addiction is becoming increasingly common. Here, addict Josh Johnson talks about his experience.

'I heard about cryptocurrencies years ago when Bitcoin first came out, but I can't say I was intrigued from the start. Even when cryptocurrencies were mentioned more and more in the news and on social media, I didn't pay much attention. It wasn't until my friends started trading that I got into it. Seeing them earning loads of money overnight by doing practically nothing made me want to get in on it too. I'd been trading for a while by the time the pandemic started, but that was when the trouble started.

<sup>&</sup>lt;sup>24</sup> https://learnenglishteens.britishcouncil.org/exams/reading-exams/multiple-choice

'It was crazy to begin with. My first investment quadrupled within a couple of weeks. I couldn't believe it. It gave me a feeling of power, and I felt as if I could achieve anything. I poured more money in, and the same thing kept happening. Of course, it was all chance. I happened to put my money in before the currencies hit an all-time high. Then they plummeted. I was convinced they'd recover, so I kept pumping more money in. But what had worked before no longer did. I lost everything.

'Since getting help, I've thought about how I got addicted. There was a point when I had over three hundred thousand pounds. If I'd quit then, I could have bought the house that I had my heart set on. But rather than the money itself, it was the drama that hooked me. And winning didn't give me as big a thrill as losing. You would think I'd feel devastated when money disappeared, but instead, I'd feel a new sense of purpose and drive to prove myself once again.

'Lots of people enjoy these highs and lows of trading without becoming addicts, so it's hard to know when you've gone too far. Like with many addictions, crypto addicts become isolated and withdrawn and neglect their work. But I was off work and living by myself, so if those signs were there, they weren't noticeable. For me, I missed the high when money ran out and I couldn't trade, so I found it through drugs, and my sister found out. I'd been addicted to them in the past, and it got to the point of me lying and stealing from others. She didn't want that to happen again, and she stepped in.

'There's a worrying, rising trend in cryptocurrency trading addiction. It's not surprising really, given the irresponsible advertising techniques which companies have used. I'm glad authorities are cracking down on those. But it concerns me that the apps send you notifications when you make money, inviting you to share your good news with others. But when you lose, you get nothing. It gives you a false sense that you are doing well. I think there should be rules that don't allow that.

'Compared to traditional gambling, cryptocurrency trading is seen as socially acceptable. It's something that smart but adventurous people do. And whereas a lot of gamblers play alone or against other people, trading is social. But this leads to a herd mentality, where people stop thinking things through for themselves. The companies make lots of information available to educate people about the risks of trading. It's far easier, though, to act on a friend's tip-off or hunch. All this means that people don't realise that they are on a slippery slope until it's gone too far.<sup>25</sup>

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<sup>&</sup>lt;sup>25</sup> https://test-english.com/reading/b2/crypto-addicts-b2-reading-test/

- 1. Josh started trading in cryptocurrencies...
- a. when Bitcoin first came out.
- b. after seeing it in the media.
- c. influenced by his peers' success
- d. while working from home during the pandemic.
- 2. What was Josh's experience while trading?
- a. He immediately lost all the money he invested.
- b. He made many small wins and slightly larger losses.
- c. He made lots of money, lost it all and couldn't regain it.
- d. He recovered from big losses at first but later could not.
- 3. Josh says that he kept gambling because...
- a. he wanted enough money to buy a house.
- b. he enjoyed the excitement of winning money.
- c. he didn't want to confess that he'd lost money.
- d. he enjoyed the feeling he got when he lost money.
- 4. For Josh, crypto currency trading became a problem when...
- a. he stopped working and spending time with other people.
- b. he started to sell drugs in order to fund his trading habit.
- c. he returned to a different, former addiction.
- d. he started telling lies and taking things from family remembers.
- 5. Josh would like to see a change in the way that...
- a. cryptocurrencies are advertised.
- b. trading apps communicate with traders.
- c. trading apps encourage sharing among friends.
- d. cryptocurrency companies are regulated.
- 6. Josh says that when people trade cryptocurrencies together in groups, ...
- a. they tend not to consider their decisions thoroughly.
- b. they learn and share more information and make better choices.
- c. they are given special tips by the trading companies.
- d. they become more socially accepted by their peers.

#### Have we taken security too far?

What's the difference between a medical student and a convict? The answer: A convict doesn't pay \$50,000 a year for the privilege of being fingerprinted and patted down. I am referring, of course, to the increasingly stringent security measures that have come to characterize modern educational testing. As student evaluation techniques have migrated from face-to-face assessment to computer-based exams administered in dedicated testing centers, evaluators have become less and less likely to know examinees, leading to heightened precautions around exam security.

I recently interviewed a group of fourth-year medical students who had just taken Step 2 of the United States Medical Licensing Clinical Knowledge Examination at test-administration centers. Each of the students had paid \$560 for the privilege, and had devoted nine hours to the single-day exam, which consists of eight sections of 40 to 45 questions each. Over the day, they received a total break time of 45 minutes. Students must pass the exam to obtain a medical license, and scoring well is an important factor in gaining admission to competitive medical specialties. So anxiety tends to run high.

This inevitable anxiety is compounded by Checkpoint Charlie-esque security measures. IDs are checked. Each student wears a unique number on his or her shoulder throughout the day. Students are fingerprinted each time they enter and exit the testing room (up to 16 times). They are patted down and asked to roll up their pants legs and pull their pockets inside-out. If they wear a jacket or sweater into the exam room, they cannot take it off. They are warned that they will be under constant camera surveillance.

One of the students, a former U.S. marine, said he had found the entire atmosphere of the exam eerily familiar. He had served in Iraq, helping to preside over the return of inhabitants to Fallujah after the city's recapture by U.S. forces. "It was weird," he said. "They were using many of the exact same procedures and equipment we used in Fallujah. It took so long for them to verify identities that you almost didn't dare leave the room, for fear you couldn't get back in time. I finally had to show one of the examiners how to do it properly." Of course, these techniques are not merely for medical students. Aspiring accountants and architects, students sitting for the GRE, and prospective employees of Silicon Valley companies are all subjected to these medieval measures.

Some might say that a high-security approach to testing students is not only necessary but laudable. In the case of medical testing, the health of the nation is a vital resource, and we cannot afford to place it in the hands of physicians who might have succeeded through academic dishonesty. Who would want a loved one to be cared for by a physician who had cheated on the medical-licensing exam? As public policy, exam hawks argue, we should demand the very highest security in all such testing.

But perhaps we have gone overboard. After all, the core of the patient-physician relationship is trust. The Hippocratic Oath, which has shaped the ethics of medicine for many centuries, enjoins the physician to respect patients' privacy and dignity and to always put each patient's interests first. We entrust to our physicians all sorts of matters we would not share with anyone else—private details of our health and personal relationships, access to intimate parts of our bodies, sometimes even our lives. We want to trust our physicians. No one is arguing that security is unnecessary, but perhaps we haven't quite yet found the sweet spot.<sup>26</sup>

From pruebas de certificación Principado de Asturias 2014 Adapted from The Chronicle of Higher Education. Richard Gunderman

- 1. Exam security has become stricter because ...
- a. most exams are done on computers
- b. evaluators don't often know the examinees' identities
- c. evaluators prefer not to know who the examinees are
- 2. The examination ...
- a. is a privilege to take
- b. is unnecessarily long
- c. puts students under great pressure
- 3. When they are taking the exam, students ...
- a. are watched all the time
- b. must remain in total silence
- c. must ask for permission to take their sweaters off
- 4. According to the ex-marine, ...
- a. the staff were not competent enough
- b. identification processes are always time consuming
- c. it was advisable not to leave the exam room till the end

<sup>&</sup>lt;sup>26</sup> https://test-english.com/reading/b2/have-we-taken-security-too-far/

- 5. According to the writer, the security measures described are ...
- a. peculiar
- b. outrageous
- c. far too strict
- 6. The writer concludes that ...
- a. security is not necessary
- b. a midpoint should be reached
- c. it's getting difficult to rely on our GPs

#### PARAGRAPH HEADINGS B2

In order to do this type of task well you must understand the gist, or main ideas, of each paragraph. These tips will help you do this task well.

- 1. First read all of the headings.
- 2. Then read the paragraphs carefully and match the ones you are sure about.
- 3. If you are not sure about one, leave it and move on to the next one. You may be able to match up ones you are not sure about by elimination at the end.
- 4. Be careful with extra options, e.g. six headings to match with four paragraphs. There will be two headings you don't need.<sup>27</sup>

You are going to read an article about buying houses. Choose the most suitable heading from the list A-I for each part (1-7) of the article. There is one extra heading which you do not need to use. There is an example at the beginning (0).

#### An Englishman's Castle

(0) ...E...

'An Englishman's home is his castle', goes the saying and the British seem more obsessed with property than some other nations. 68% of households in the UK are owner-occupied. Even though this is not the highest in Europe — in Ireland 78% of houses are occupied by their owner and in Spain the figure is 82% — the UK stands out because of the high level of mortgage debt, with a figure of 58.8%, compared to Ireland's 29.9% and Spain's 27.4%.

(1) .....

The cause of high levels of borrowing are high prices. House prices have been going up in every region of Britain — with last month's increase being a record. The average house price in Britain is now more than 100,000 and is going up by £28 a day. This means that it is rising at a rate of roughly 15% to 18% a year.

<sup>&</sup>lt;sup>27</sup> https://learnenglishteens.britishcouncil.org/exams/reading-exams/match-headings-paragraphs

(2) .....

The race to buy your first house is made more difficult by the shortage of housing. The government says that in the next 20 years in England nearly 4 million new households will require homes. The shortfall between supply and demand drives up prices, and make people more desperate.

(3) .....

Now, in some cities, desperation to own a home has sparked the invention of the 'microflat'. These small microflats have 30 sq/m of living space. The flats are factory-built and assembled one on top of the other. Richard Connor and Stuart Piercy designed the microflat because although they earn £30,000-35,000 a year, this is not enough to buy a house in London. Stuart said, 'We're trying to keep the price below £100,000 per flat, compared with average London prices of about £180,000-£190,000.'

(4) .....

Earlier this month, there was speculation that mortgages in the UK would double in length to 50 years, so that ordinary homebuyers could afford to pay the monthly repayments. 30-year mortgages are already available from most lenders, but if house-price inflation remains ahead of salary inflation the only way mortgages will remain affordable is by increasing the term to 30, 40 or even 50 years.

(5) .....

If it sounds like the property situation in this country is getting out of control, spare a thought for the Japanese. Owning a property in Japan is even more expensive. Despite near-zero interest rates, some mortgages come with terms as long as 100 years. Borrowers never in fact pay off the loan, leaving the property in the hands of bank and the mortgage in the hands of the children.

(6) .....

And although microflats and permanent mortgages may not please every one, this is the price that some British people may have to pay if the property market doesn't change. For young people especially, the dream of having their own 'castle' seems more distant now than it used to be.

#### (7) .....

However, things may change. House prices in London have dropped slightly in the past few weeks. It is too early to say if this is just a temporary event or the beginning of a long-term decline. Some people believe that the latter may be the case. Prices may go on dropping for a number of years.<sup>28</sup>

| A. | A compact solution                 |
|----|------------------------------------|
| B. | Smaller houses or longer payments? |
| C. | Mortgaged for life                 |
| D. | Can prices get any higher?         |
| E. | A nation of homeowners             |
| F. | Keeping payments down              |
| G. | Risking your money                 |
| H. | Need for more houses               |
| I. | A good investment                  |

Read this article and then, from the list A-G below, choose the most appropriate heading to summarise each of the five paragraphs. Two of the suggested paragraph headings will not apply.

# **Earth Calling Space: 'Is There Anyone Out There?'**

#### 1 ...

October 12, 1992 might turn out to be one of the great days in the history of mankind. If the search begun on that day is successful, it could herald a new era — or it could be the beginning of the end for the earth and its inhabitants.

#### 2 ...

That was the day on which the US space agency NASA launched a major new search for alien civilisations in space by aiming two powerful radio telescopes towards a small star in the constellation of Ophiuchus. It is a search which is planned to last thirty years at a total cost of \$100 million.

#### 3 ...

This is not the first time astronomers have searched the skies for signs of intelligent life, but it is certainly the most ambitious. Using two telescopes, NASA scientists are planning to scan the skies for any signs of life `out there'. While one enormous

<sup>&</sup>lt;sup>28</sup> https://testmaximizer.com/paragraph-headings-b2

telescope at the Arecibo Observatory in Puerto Rico will be trained on 1,000 nearby stars, another will search the rest of the sky. Data gathered from both sources will then be collected and analysed, and scientists will monitor the whole experiment as it progresses.

#### 4 ...

Scientists have high hopes of succeeding. The telescopes they are using will apparently only detect signals deliberately broadcast by alien intelligence. Our own galaxy alone, the Milky Way, contains 10 billion stars which might support habitable planets. And if life has evolved on only one in a thousand of these, there would be, according to scientists, 10 million civilisations within 130,000 light years.

#### 5 ...

That seems an enormous number, so if that is the case, why is it that we haven't picked up any 'Is there anyone out there?' messages ourselves from one of those 10 million civilisations? Science-fiction writers through the ages have nearly always assumed that extra-terrestrial civilisations would be more intelligent than our own. But if they're out there, are they?<sup>29</sup>

| A. | Success guaranteed?                |
|----|------------------------------------|
| B. | Positive signals already           |
| C. | Are We more intelligent than Them? |
| D. | Constellation Orion most likely    |
| E. | A \$100 million gamble?            |
| F. | Data constantly to be analysed     |
| G. | A historic day                     |

<sup>&</sup>lt;sup>29</sup> https://testmaximizer.com/paragraph-headings-c1

# **B2 VOCABULARY TESTS**

Read and complete the text below. For each of the empty spaces choose the correct answer (A, B, C or D).

# Checking your mobile phone

| How often do you check your phone? For many of us, our phone is an ess   | ential |
|--|--------|
| (1) of everyday life, but apparently we are spending an incre            | asing  |
| amount of time checking it for information without being (2) of          | doing  |
| SO.  |        |
| Research in Helsinki shows that phone checking (3) lasts les             | s than |
| 30 seconds on each occasion, and usually (4) of opening a                | single |
| application such as social media. The study also found many users check  | their  |
| mobiles throughout the (5) day, and that what they check is              | often  |
| (6) with particular contexts. For instance, when travelling to we        | ork or |
| college, people tend to check their email; if they are bored, they get a | quick  |
| (7) on the latest news.  |        |
| Checking this frequently can easily become a habit, which some say ca    |        |
| us from more important things. Others, though, believe that being        | _      |
| to (9) so much new information so quickly makes life far                 | more   |
| interesting. <sup>30</sup>   |        |

|    | A         | В         | С          | D           |
|----|-----------|-----------|------------|-------------|
| 1. | branch    | item      | piece      | part        |
| 2. | sensitive | cautious  | sensible   | conscious   |
| 3. | virtually | typically | widely     | suitably    |
| 4. | consists  | composes  | involves   | includes    |
| 5. | complete  | total     | normal     | entire      |
| 6. | attached  | assumed   | associated | accompanied |
| 7. | update    | revision  | review     | upgrade     |
| 8. | disturb   | distract  | disrupt    | distribute  |
| 9. | capture   | import    | obtain     | seize       |

 $<sup>^{30}\</sup> https://englishpracticetest.net/b2-use-of-english-test-22-multiple-choice-gaps/$ 

Read and complete the text below. For each of the empty spaces choose the correct answer (A, B, C or D).

# Living next to an airport has always meant having to (1) \_\_\_\_\_\_ the noise of planes landing and taking off. Now it seems that (2) \_\_\_\_\_\_ residents also have bad weather, according to a (3) \_\_\_\_\_ published study. The scientists looked at satellite (4) \_\_\_\_\_ of clouds above airports, and also studied computer models of the way clouds behave. What they found was that as a plane flies through a very cold cloud, the air behind it expands and then cools (5) \_\_\_\_\_ rapidly. This sudden drop in temperature, (6) \_\_\_\_\_ with the hole formed in the cloud where the plane has passed through, can increase the (7) \_\_\_\_\_ of rain or snow on the ground. In the case of major airports, with hundreds of flights every day, this can have a significant (8) \_\_\_\_\_ on weather patterns up to 100 kilometres away. The researchers point out, however, that aircraft passing through clouds are (9) \_\_\_\_\_ to affect the global climate. A B C D

|    | A            | В           | С           | D             |
|----|--------------|-------------|-------------|---------------|
| 1. | keep out of  | put up with | miss out on | stand up for  |
| 2. | neighbouring | close       | local       | surrounded    |
| 3. | lately       | recently    | lastly      | freshly       |
| 4. | images       | figures     | aspects     | portraits     |
| 5. | totally      | extremely   | entirely    | perfectly     |
| 6. | joined       | attached    | composed    | combined      |
| 7. | forecasts    | certainties | chances     | opportunities |
| 8. | result       | influence   | consequence | impression    |
| 9. | doubtful     | unsure      | unlikely    | improbable    |

<sup>&</sup>lt;sup>31</sup> https://englishpracticetest.net/b2-use-of-english-test-20-multiple-choice-gaps/

Read and complete the text below. For each of the empty spaces choose the correct answer (A, B, C or D).

#### Karakamia wildlife sanctuary The Karakamia reserve is located not (1) \_\_\_\_\_ from Perth in Western Australia. Suburban is not usually a word that you (2) \_\_\_\_\_ with a wildlife paradise, but Karakamia is actually part of the township of Chidlow. The land was purchased by the Australian government in 1991 with the (3) protecting threatened species of indigenous wildlife. That's why there is a ninekilometre fence around it, designed to (4) \_\_\_\_\_ out species introduced by European settlers, (5) \_\_\_\_\_ foxes, cats and rabbits. The sanctuary (6) \_\_\_\_\_\_ its name from the Aboriginal word meaning 'home of the red-tailed black cockatoos', and at dusk the air is (7) \_\_\_\_\_ with the calls of these birds. This is when the sanctuary is at its most magical. A guided walk by spotlight is the perfect way to experience it. Many of the animals are quite tame, which means you can (8) \_\_\_\_\_\_ them at close quarters and get an idea of what Australia was like (9) \_\_\_\_\_ to European colonization.<sup>32</sup> A В D long far distant remote 1. refer accompany regard associate 3. proposal aim target plan keep 4. catch send hold 5. involving including intending indicating bears finds gains takes 6. 7. crowded filled completed packed realise 8. notice glance observe 9. advance former ahead prior

 $<sup>^{32}\</sup> https://englishpracticetest.net/b2-use-of-english-test-18-multiple-choice-gaps/$ 

Read and complete the text below. For each of the empty spaces choose the correct answer (A, B, C or D).

#### What is a coincidence?

A coincidence is a surprising thing that happen to us. For example, two friends go shopping alone on the same day. When they (1) \_\_\_\_\_\_ up afterwards, they discover that they've each bought an identical T-shirt. Many people (2) \_\_\_\_\_ coincidences as significant or mysterious. But the simple (3) \_\_\_\_\_ could be that friends tend to have similar taste in clothes.

In reality, life is (4) \_\_\_\_\_ of coincidences, but normally we don't notice them. For example, in almost fifty percent of all football matches, two players share the same birthday. This seems surprising, (5) \_\_\_\_\_ that there are 365 possible birthdays in the year. But most of these matches will be played without anybody being (6) \_\_\_\_\_ that the coincidence exists. (7) \_\_\_\_\_ your birthday is today or tomorrow, you don't generally go around telling people when it is. What's more, without realising it, you probably (8) \_\_\_\_\_ into contact with lots of people born on the same day as you. But when a coincidence is (9) \_\_\_\_\_ to your attention, it still seems amazing.<sup>33</sup>

|    | A           | В          | С          | D           |
|----|-------------|------------|------------|-------------|
| 1. | meet        | link       | join       | unite       |
| 2. | regard      | think      | consider   | believe     |
| 3. | explanation | definition | motivation | resolution  |
| 4. | heavy       | rich       | full       | crowded     |
| 5. | given       | except     | even       | instead     |
| 6. | noticed     | known      | aware      | intelligent |
| 7. | Therefore   | Whereas    | Meanwhile  | Unless      |
| 8. | make        | come       | have       | go          |
| 9. | taken       | carried    | brought    | shown       |

<sup>&</sup>lt;sup>33</sup> https://englishpracticetest.net/b2-use-of-english-test-15-multiple-choice-gaps/

#### **B2 GRAMMAR TESTS**

1. Read and complete the text below. For each of the empty spaces (1–14) choose the correct answer (A, B, C or D).

Last June my brother \_\_1\_ a car. He had had an old scooter before, but it \_\_2\_ several times during the spring. "What you want is a second – hand Mini," I suggested. "If you give me the money," he said, "\_\_3\_\_ one tomorrow." "I can't give you the money," I replied, "but what about Aunt Myra. She must have enough. We \_\_4\_\_ her since Christmas but she always hints that we \_\_5\_\_ go and see her more often." We told our parents where we were going. They weren't very happy about it and asked us not to go. So \_\_6\_\_ But later that same day something strange \_\_7\_\_. A doctor \_\_8\_\_ us that Aunt Myra \_\_9\_\_ into hospital for an operation. "\_\_10\_\_ go and see her at the same time," said my mother. "You two go today, but don't mention the money." When we \_\_11\_\_ Aunt Myra \_\_12\_\_ "I'm not seriously ill," she said, "but the doctor insists that \_\_13\_\_ to drive my car. You can have it if you promise \_\_14\_\_ me to the seaside now and again." We agreed, and now we quite enjoy our monthly trips to the coast with Aunt Myra.<sup>34</sup>

|     | A                  | В               | С                | D              |
|-----|--------------------|-----------------|------------------|----------------|
| 1.  | wanted to buy      | wanted buying   | liked to buy     | liked buying   |
| 2.  | was breaking       | was breaking up | had broken       | had broken up  |
|     | down               |                 | down             |                |
| 3.  | I get              | I'm going       | I'm going to get | I'll get       |
| 4.  | are not seeing     | haven't seen    | didn't see       | don't see      |
| 5.  | should             | shall           | would            | will           |
| 6.  | that we haven't    | that we didn't  | we haven't       | we didn't      |
| 7.  | occurred           | took the place  | passed           | was there      |
| 8.  | rang for telling   | rang to tell    | rung for telling | rung to tell   |
| 9.  | had gone           | had been        | has gone         | has been       |
| 10. | We may not all     | We can't all    | All we can't     | All we may not |
| 11. | have come there    | were arriving   | got there        | came to there  |
| 12. | was seeming        | was seeming     | seemed quite     | seemed quite   |
|     | quite happily      | quite happy     | happily          | happy          |
| 13. | I'm getting so old | I'm getting too | I get so old     | I get too old  |
|     |                    | old             |                  |                |
| 14. | taking             | bringing        | to take          | to bring       |

 $<sup>^{34}\</sup> https://www.bhamcityschools.org/cms/lib5/AL01001646/Centricity/Domain/131/Grammar\%20Tests.pdf$ 

# 2. Read and complete the text below. For each of the empty spaces (1-25) choose the correct answer (A, B, C or D).

| One crossing of the Atlantic is very much like1_; and people who cross it         |
|---|
| frequently do not2 for the3 of its interest. Most of us are quite happy           |
| when we feel4 to go to bed and pleased when the journey5 On the first             |
| night this time I felt especially lazy and went to bed6_ earlier than usual. When |
| I7 my cabin, I was surprised8 that I9 a companion during my trip.                 |
| I had expected10 but there was a suitcase11 mine in the opposite corner.          |
| I wondered who12 Soon afterward he came in. He was the sort of man you            |
| might meet13, except that he was wearing14 good clothes that I made up            |
| my mind that we would not15,16, and did not say17                                 |
|   |

I suppose I slept for several hours because when I woke up it was the middle of the night. I felt cold but covered \_\_18\_\_ \_\_19\_\_ and tried to \_\_20\_\_. Then I realized that a draught was coming from somewhere. I got up \_\_21\_\_ the door but found it already locked from the inside. The cold air was coming from the window opposite. I crossed the room and \_\_22\_\_ the moon shone through it on to the other bed. \_\_23\_\_ there. It took me a minute or two to \_\_24\_\_ the door myself. I realized that my companion \_\_25\_\_ through the window into the sea.<sup>35</sup>

|     | A               | В               | С               | D               |
|-----|-----------------|-----------------|-----------------|-----------------|
| 1.  | other           | the other       | another         | one other       |
| 2.  | make the travel | make the voyage | do the travel   | do the voyage   |
| 3.  | reason          | motive          | cause           | sake            |
| 4.  | tired enough    | enough tired    | ourselves tired | our selves      |
|     |                 |                 | enough          | enough tired    |
| 5.  | is achieved     | finish          | is over         | is in the end   |
| 6.  | quite           | rather          | fairly          | somehow         |
| 7.  | arrived in      | reached to      | arrived to      | reached at      |
| 8.  | for seeing      | that I saw      | at seeing       | to see          |
| 9.  | am to have      | should have had | would have      | ought to have   |
| 10. | being lonely    | to be lonely    | being alone     | to be alone     |
| 11. | like            | as              | similar than    | the same that   |
| 12. | could he be and | he could be and | could he be and | he could be and |
|     | how he would    | what he would   | what would he   | he would be     |
|     | be              | be like         | be like         |                 |
| 13. | in each place   | for all parts   | somewhere       | anywhere        |
| 14. | a so            | so              | such a          | such            |

 $<sup>^{35}\</sup> https://www.bhamcityschools.org/cms/lib5/AL01001646/Centricity/Domain/131/Grammar\%20Tests.pdf$ 

| 15. | treat together   | pass together      | get on well     | go by well      |
|-----|------------------|--------------------|-----------------|-----------------|
|     | well             | well               | together        | together        |
| 16. | whoever he was   | whoever was he     | however he      | however was he  |
|     |                  |                    | was             |                 |
| 17. | him a single     | him not one        | a single word   | not one word to |
|     | word             | word               | to him          |                 |
| 18. | up me            | up myself          | up to myself    | myself up       |
| 19. | so well as I     | as well as I       | so well that I  | as well that I  |
|     | could            | could              | might           | might           |
| 20. | go back to sleep | go back to         | put myself to   | put myself for  |
|     |                  | sleeping           | sleep again     | sleeping again  |
| 21. | to shut          | for shutting       | in order that I | so as for       |
|     |                  |                    | shut            | shutting        |
| 22. | while doing like | as I did like that | as I did so     | at doing so     |
|     | that             |                    |                 |                 |
| 23. | It was no one    | There was no       | It any one      | There was any   |
|     |                  | one                |                 | one             |
| 24. | remind to lock   | remember to        | remind locking  | remember        |
|     |                  | lock               |                 | locking         |
| 25. | had to jump      | was to have        | must have       | could be jumped |
|     |                  | jumped             | jumped          |                 |

# 3. Read and complete the text below. For each of the empty spaces (1–25) choose the correct answer (A, B, C or D).

| I had been sitting1_ in my usual compartment2_ at least ten minutes,              |
|---|
| waiting3 The trains from Littlebury never seemed to start4 and I often            |
| thought that I could have5_ in bed a little longer or had6_ cup of tea before     |
| 7 Suddenly I heart someone shouting8 the platform outside. A young girl           |
| was running towards the train. The man9_ put out his hand to stop her but she     |
| run past him and opened the door of my compartment. Then the whistle blew and     |
| the train started. "I nearly missed it,10?" the girl said. "How long does it take |
| to11 London?" "It depends on the12" I said. "Some days it's13                     |
| others." "I'll have to14,15 late again tomorrow," she said. "It's my first        |
| day16 with a new firm today and they told me that the man17 is very               |
| strict. I18 him yet so I don't know19 but he sounds a bit frightening. She        |
| talked about her new job20 the way to London and before long, I realized that     |
| she was going to work for my firm. My21 secretary had just left so I must be      |
| her new boss 22 only fair to tell her. "Oh, dear," she said." 23 mistake! I       |
| wish I 24 ""Never mind," I said. "At least you'll know when your train's late     |
| that25 <sup>**36</sup>  |

|     | A                  | В                   | С                 | D                |
|-----|--------------------|---------------------|-------------------|------------------|
| 1.  | for myself         | only myself         | by myself         | in my own        |
| 2.  | for                | during              | since             | meanwhile        |
| 3.  | the train to start | for the train start | the train's start | for the train to |
|     |                    |                     |                   | start            |
| 4.  | on their hour      | on time             | at their hour     | at time          |
| 5.  | lain               | laid                | lied              | lay              |
| 6.  | other              | some other          | another           | one other        |
| 7.  | I had left the     | leave from home     | leaving home      | to leave home    |
|     | home               |                     | -                 |                  |
| 8.  | at                 | by                  | in                | on               |
| 9.  | at place           | on duty             | for control       | in post          |
| 10. | haven't I          | don't I             | wasn't I          | didn't I         |
| 11. | get to             | arrive to           | reach to          | make to          |
| 12. | driver to the      | driver engine       | engine's driver   | engine driver    |
|     | engine             |                     |                   |                  |
| 13. | far slower that    | much slower         | a lot more slow   | a great deal     |
|     |                    | than                | than              | more slow than   |

 $<sup>^{36}\</sup> https://www.bhamcityschools.org/cms/lib5/AL01001646/Centricity/Domain/131/Grammar\%20Tests.pdf$ 

| 14. | mend me the      | mend me my        | have my watch | have mended       |
|-----|------------------|-------------------|---------------|-------------------|
|     | watch            | watch             | mended        | my watch          |
| 15. | in order not are | so as not to be   | for not being | so that it's not  |
| 16. | at job           | in job            | in work       | at work           |
| 17. | I'm going to     | what I'm going    | for which I'm | which I'm going   |
|     | work for         | to work for       | going to work | to work           |
| 18. | didn't meet      | haven't met       | didn't know   | haven't known     |
| 19. | what he is like  | what is he like   | how he is     | how is he         |
| 20. | through          | by                | on            | in                |
| 21. | proper           | own               | same          | self              |
| 22. | There was        | That was          | It was        | Was               |
| 23. | What a terrible  | What terrible     | How terrible  | So terrible a     |
| 24. | had known        | have known        | knew          | would have        |
|     |                  |                   |               | known             |
| 25. | so will the mine | the mine will be, | So will mine  | mine will be, too |
|     | be               | too               |               |                   |

# 4. Read and complete the text below. For each of the empty spaces (1–25) choose the correct answer (A, B, C or D).

| I can clearly remember the first time I1_ Mr. Andrews, my old headmaster,       |
|---|
| 23 During the war, I had been4_ school in the north of England but              |
| my family had just returned to London5_ for children to go to and my father     |
| had to go from6_ asking them78_ pupil. I used to go with him but he             |
| had9 hard time trying to persuade people10 him that I seldom had to do          |
| 11 We had been to all the schools12 we lived, but13 my father                   |
| argued, the more impossible it became. In the end, we went to a school14 from   |
| home. The headmaster15 for at least an hour. While we were waiting, I looked    |
| round that the16,17 was one of those old Victorian structures, completely       |
| 18 but still standing. I could hear the boys playing in the playground outside. |
| When the headmaster's secretary finally let us19 his office, Mr. Andrews spoke  |
| to me first . "Why do you want to come here?" he said. I had been thinking20    |
| something about studying but I couldn't help21 the boys outside. "I don't know  |
| 22 in London," I said." I'd like23 with the other boys. I read a lot of books,  |
| too" I added. "All right," Mr. Andrews said. "We have one place free,24"        |
| My two years at that school were among the25 of my life. <sup>37</sup>          |

|     | A               | В               | С               | D               |
|-----|-----------------|-----------------|-----------------|-----------------|
| 1.  | met             | knew            | found           | discovered      |
| 2.  | even            | nevertheless    | although        | in spite        |
| 3.  | it's now since  | it's over 20    | it's since more | it makes more   |
|     | over 20 years   | years ago now   | than 20 years   | than 20 years   |
|     |                 |                 | now             | now             |
| 4.  | in the          | in              | at              | at the          |
| 5.  | There were not  | There were not  | There didn't    | Not enough      |
|     | enough schools  | still enough    | stay enough     | schools rested  |
|     | left            | schools         | schools         |                 |
| 6.  | one to another  | each to other   | one to other    | the ones to the |
|     |                 |                 |                 | others          |
| 7.  | that they took  | for taking me   | for to take me  | to take me      |
|     | me              |                 |                 |                 |
| 8.  | as              | as a            | like            | like a          |
| 9.  | such            | such a          | so              | a so            |
| 10. | just for seeing | just for to see | even seeing     | even to see     |
| 11. | no test         | one test        | any test        | some test       |

 $<sup>^{37}\</sup> https://www.bhamcityschools.org/cms/lib5/AL01001646/Centricity/Domain/131/Grammar\%20Tests.pdf$ 

| 12.                             | near where  | near  | near to   | near the place                            |
|---------------------------------|---|---|---|---|
|                                 |   |   |   | there                                     |
| 13.                             | the most  | the more  | how much  | for how much                              |
| 14.                             | at five miles   | five miles long                                     | about five  | about five miles                          |
|                                 |   |   | miles away  | far                                       |
| 15.                             | kept us to wait                                       | kept us waiting                                     | made us to  | made us waiting                           |
|                                 |   |   | waiting   |   |
| 16.                             | building of the                                       | building school                                     | school's  | school building                           |
|                                 | school  |   | building  |   |
|                                 |   |   | _   | l .                                       |
| 17.                             | which   | that  | what  | it  |
| 17.<br>18.                      | of the old time                                       | that outside its time                               | what past its date                                      | out of date                               |
|                                 |   |   |   |   |
| 18.                             | of the old time                                       | outside its time                                    | past its date   | out of date                               |
| 18.<br>19.                      | of the old time<br>to enter                           | outside its time<br>to pass in                      | past its date<br>to come into                           | out of date<br>into                       |
| 18.<br>19.<br>20.               | of the old time<br>to enter<br>of saying              | outside its time<br>to pass in<br>to say            | past its date<br>to come into<br>of telling             | out of date<br>into<br>to tell            |
| 18.<br>19.<br>20.<br>21.        | of the old time to enter of saying to remember        | outside its time to pass in to say remembering      | past its date to come into of telling to remind         | out of date into to tell reminding        |
| 18.<br>19.<br>20.<br>21.<br>22. | of the old time to enter of saying to remember no one | outside its time to pass in to say remembering none | past its date to come into of telling to remind someone | out of date into to tell reminding anyone |

#### THE KEYS

# ENGLISH LANGUAGE LEVEL TEST – GRAMMAR AND VOCABULARY

#### Grammar

1. a. 2. b. 3. d. 4. b. 5. d. 6. c. 7. b. 8. b. 9. c. 10. d. 11. a. 12. a. 13. b. 14. c. 15. d. 16. b. 17. a. 18. c. 19. a. 20. b. 21. d. 22. d. 23. c. 24. b. 25. c. 26. d. 27. b. 28. c. 29. b. 30. a. 31. d. 32. c. 33. b. 34. d. 35. b. 36. a. 37. b. 38. d. 39. b. 40. a. 41. a. 42. b. 43. d. 44. a. 45. c. 46. a. 47. d. 48. b. 49. c. 50. d.

# Vocabulary

1. c. 2. c. 3. b. 4. c. 5. c. 6. d. 7. b. 8. b. 9. a. 10. c. 11. c. 12. b. 13. d. 14. c. 15. a. 16. c. 17. a. 18. a. 19. b. 20. b. 21. d. 22. c. 23. c. 24. a. 25. b. 26. d. 27. c. 28. c. 29. b. 30. b. 31. d. 32. b. 33. b. 34. a. 35. b. 36. c. 37. a. 38. a. 39. d. 40. c. 41. b. 42. d. 43. b. 44. d. 45. a. 46. d. 47. c. 48. d. 49. a. 50. c.

### The scores below are meant as a rough guide to determine student levels:

0-20: Elementary (A1)

21-40: Pre-intermediate (A2)

41-60: Intermediate (B1)

61-80: Upper intermediate (B2) 81-100: Advanced (C1/C2)<sup>38</sup>

# Lesson 1. Business technology.

**Exercise 3.** 1. firewalls 2. IT department 3. the cloud 4. network 5. servers 6. bandwidths

# Lesson 2. Computers.

**Exercise 3.** 1. update 2. hardware 3. specifications 4. software 5. computer literate 6. backup

Exercise 6. 1. b) smaller 2. a) an atom 3. c) transistors 4. a) bit

<sup>38</sup> https://www.linguahouse.com/

Exercise 7. 1. anything 2. tricky 3. 500 4. same time

**Exercise 8.** 1. Our home computers 2. Databases 3. IT security 4. Medicine

#### **Lesson 3. Automation.**

**Exercise 3.** 1. automated 2. future-proof 3. technological unemployment 4. Machine learning 5. self-driving 6. robotics

Exercise 6. 1. a) factory work 2. a) mass unemployment 3. b) \$14b 4. c) 4,500

**Exercise 7.** 1. information 2. specialised 3. data 4. factories

Exercise 8. 1. The world population 2. 150,000 3. 40% 4. Our jobs

# Lesson 4. Gadgets and appliances.

#### Exercise 1.

Gadget (n) – a small tool or device that does something useful Appliance (n) – a machine that is designed to do something in the home e.g., cooking, cleaning, heating

#### Exercise 2.

Source for images:

LED houseplant - fluoraplant.com

hybrid duvet - simbasleep.com

dumbbell alarm clock - thisiswhyimbroke.com

handheld espresso maker - www.wacaco.com

- 1. air fryer 2. robot vacuum cleaner 3. LED houseplant
- 4. hybrid duvet 5. dumbbell alarm clock 6. handheld espresso maker

**Exercise 3.** 1.  $\rightarrow$  b. 2.  $\rightarrow$  c. 3.  $\rightarrow$  a.

Answers to the text:

- 1. hectic
- 2. gizmos
- 3. delights

#### Exercise 5.

#### Part A

 $1. \rightarrow e. \ 2. \rightarrow b. \ 3. \rightarrow c. \ 4. \rightarrow d. \ 5. \rightarrow f. \ 6. \rightarrow a. \ 7. \rightarrow h. \ 8. \rightarrow g. \ 9. \rightarrow i.$ 

#### Part B

- 1. encouragement 2. serenity 3. sophisticated
- 4. nutrients 5. flickering 6. ambiance
- 7. dirt 8. ingenious 9. fireflies

#### Exercise 6.

- 1. Not needed 2. Paragraph C 3. Paragraph F
- 4. Paragraph A 5. Paragraph B 6. Paragraph G
- 7. Paragraph D 8. Paragraph E 9. Paragraph H Sources:

www.forbes.com/sites/leebelltech/2019/06/01/the-best-smart-home-tech/?sh=61f223bb18ba

www.gadgetgram.com/2022/11/16/colorlight-fluora-mini-app-enabled-smart-led-illuminated-floor-plant/

androidcure.com/5-smart-home-appliances-with-latest-technologies/

#### Exercise 7.

- 1. False. "... the range of gizmos available to us expands..."
- 2. False. "...fry with up to 70% less oil..."
- 3. True. "...you can whip it out of your bag in an instant..."
- 4. Not given
- 5. False "...you can even control it via an app on your phone ..."
- 6. True. "...can change the colours, the brightness, and the movement ..."
- 7. False. "...temperature controlling features inspired by astronauts and it knows when you feel too hot or too

cold..."

- 8. True. "...you will need to lift the dumbbell 30 times to shut off the alarm..."
- 9. Not given

#### Exercise 8.

**splash out on something** – to spend a lot of money on buying things, especially things that are pleasant to have but that you do not need

**pick-me-up** – something that makes someone feel better, restores one's energy and lifts their spirits

**a bit of relief from our aches and pains** – to ease any minor pains that you feel in your body after a hectic and tiring day

### **Lesson 5. Household robots.**

#### Exercise 2.

#### Part A

 $1. \rightarrow h. \ 2. \rightarrow f. \ 3. \rightarrow c. \ 4. \rightarrow e. \ 5. \rightarrow b. \ 6. \rightarrow g. \ 7. \rightarrow a. \ 8. \rightarrow d.$ 

#### Part B

- 1. founder 2. precision
- 3. claims 4. revenues
- 5. struggled 6. recruit
- 7. household 8. headquarters

#### Exercise 3.

**Reader:** British firm Dyson has made the headlines again with a surprise announcement. Dyson, which was founded in 1991, is known for its line of vacuum cleaners and other homeappliances, making it a household name around the world.

**Reader:** However, the company is planning to create a robotics centre at Hullavington Airfield, which it claims will be the largest of its kind in the UK.

**Reader:** The proposed centre, which will host 250 robotics engineers, will help the company torealise its goal of developing household robots by 2030.

**Reader:** Dyson, which takes its name from founder James Dyson, has released images of roboticarms picking up items such as a teddy bear and dishes – tasks that robots have, untilrecently, struggled with, as they require a mixture of strength and precision.

**Reader:** James Dyson, a British billionaire valued at £23 billion by the Sunday Times, controversially moved his company's headquarters to Singapore in 2019. Dyson was abig supporter of Brexit and had publicly backed British manufacturing in the past.

**Reader:** The firm, which reported revenues of £6 billion in 2021, intends to spend £2.75 billionbetween 2020 to 2025 on new products and research, which would include its robotics department.

**Reader:** Dyson plans to recruit 700 more robotics engineers over the next five years. The moveinto new territory isn't the company's first – in 2019, it dropped an electric car project, and, during the pandemic, the firm has been involved in the production of ventilators and filters.

a. 1991 b. 250 c. 2030 d. 23 billion e. 2019 f. 6 billion g. 2.75 billion h. 700

#### Exercise 4.

- 1. False. The company is known for vacuum cleaners and has recently announced a move into robotics.
  - 2. False. The company claims it will be the largest in the UK
  - 3. True. The company takes its name from its founder, James Dyson.
- 4. True. Until recently, robots have struggled to pick up such objects as the action required a mixture of strength and precision.
  - 5. Not given. We are only told that Dyson was a big supporter of Brexit.
  - 6. False. Dyson dropped an electric car project in 2019.
- 7. True. The company has been involved in the production of ventilators and filters.

#### Exercise 5.

#### Part A

T

$$1. \rightarrow e. \ 2. \rightarrow c. \ 3. \rightarrow b. \ 4. \rightarrow d. \ 5. \rightarrow a.$$

II

$$1. \rightarrow e. \ 2. \rightarrow c. \ 3. \rightarrow b. \ 4. \rightarrow d. \ 5. \rightarrow a.$$

#### Part B

- 1. combing
- 2. come across
- 3. inevitable
- 4. barely
- 5. bearable
- 6. affordable
- 7. retirement
- 8. insurance
- 9. reckon
- 10. evolve

Exercise 6. 1. Rob 2. Bailey 3. Jim 4. Not given 5. Dalia

### Exercise 7.

T

- 1. Rob 2. Jim, Bailey
- 3. Not given 4. Dalia

II

1. c. 2. b. 3. c. 4. a.

Sources:

https://www.washingtonpost.com/technology/2021/11/10/home-robots-more-personal/

https://www.theguardian.com/technology/2022/may/25/dyson-reveals-its-big-bet-robots

https://www.bbc.com/news/technology-61574202

#### Exercise 8.

#### Part A

1. programming 2. working 3. qualities 4. powerful

#### Part B

1. crashing 2. Artificial Intelligence 3. upgrade 4. code

#### Exercise 10.

 $1. \rightarrow a. 2. \rightarrow b. 3. \rightarrow c. 4. \rightarrow d.$ 

### Lesson 6. Artificial Intelligence.

**Exercise 3.** 1. superintelligence 2. Algorithmic bias 3. sentient 4. Turing test 5. existential threat 6. Three Laws of Robotics

**Exercise 6.** 1. b) 50 years 2. a) harmless 3. b) about equal 4. a) 40

Exercise 7. 1. mankind 2. humans 3. danger 4. invention

**Exercise 8.** 1. Electronic devices 2. A single evil robot 3. Human emotions/empathy 4. Our brains

# **Lesson 7. Revolutionary 6G progress.**

#### Exercise 2.

$$1. \rightarrow g. \ 2. \rightarrow d. \ 3. \rightarrow h. \ 4. \rightarrow e. \ 5. \rightarrow f. \ 6. \rightarrow c. \ 7. \rightarrow a. \ 8. \rightarrow b.$$

#### Exercise 3.

**Newsreader:** Information has been sent across a distance of 1.2 miles at subterahertz frequencies, an important step towards the development of 6G, which is seen as the future oftelecommunications.

**Newsreader:** Researchers worked with NASA and the US Air Force in order to solve the problem oflong-distance wireless communications at a terahertz level. Until now, creating a stableconnection at such frequencies has been very difficult, with the signal becoming morefragile.

**Newsreader:** In order to succeed, the team had to rethink their radio setup. Typically, a signalsent wirelessly is mixed to remove distortion. However, the researchers found thattheir mixer couldn't handle the increase in power, so they removed it. Instead, theinformation, which was sent in a distorted state, arrived at the source clean.

**Newsreader:** The breakthrough marks a huge improvement in existing technology. 6G is thoughtto be capable of reaching frequencies of around 3 terahertzes. The limit for existing 5Gfrequencies is 71 gigahertzes.

**Newsreader:** In the experiment, the research team were able to achieve frequencies and bandwidthsover 100 times better than 5G networks, but the new technology may be a longway off. 5G is yet to be available to everyone, and there are far more challenges inintroducing 6G to the global population.

**Newsreader:** The research does, however, offer hope to those who live in rural communities, and could open the door to high-speed Internet for everyone, no matter where they live in the world.

- 1. sub-terahertz
- 2. frequencies ≀ fragile
- 3. distortion
- 4. mixer
- 5. breakthrough
- 6. bandwidths
- 7. rural

#### Exercise 4.

1. a. 2. b. 3. c. 4. c. 5. b.

#### Exercise 5.

Part A. 1. 
$$\rightarrow$$
 b. 2.  $\rightarrow$  c. 3.  $\rightarrow$  g. 4.  $\rightarrow$  d. 5.  $\rightarrow$  e. 6.  $\rightarrow$  f. 7.  $\rightarrow$  h. 8.  $\rightarrow$  a.

#### Part B

- 1. campaign 2. convince 3. claimed 4. conspiracy theory
- 5. reassure 6. maintain 7. radiation 8. community

#### Exercise 6.

1. Fiona 2. Patrick 3. Not given 4. Giselle 5. Rashid Sources:

www.iflscience.com/crucial-step-made-toward-6g-as-longest-terahertz-wireless-link-established-66958

www.nature.com/articles/s41928-022-00897-6 www.wsj.com/articles/forget-5g-lets-talk-6g-11647046000

#### Exercise 7.

Part A

1. Patrick, Giselle 2. Rashid 3. Fiona 4. Not given

Part B

1. b. 2. c. 3. a. 4. b.

#### Exercise 8.

Part A

1. a. 2. b.

#### Part B

- 1. knew 2. would learn
- 3. could connect ≀ had 4. had ≀ could talk
- 5. would use ≀ could 6. won ≀ would buy

# Lesson 8. Big data and AI.

**Exercise 3.** 1. data storage 2. Data analysts 3. novel situations 4. automation 5. machine learning 6. big data

# Lesson 9. Data protection.

**Exercise 3.** 1. data protection 2. Hackers 3. encrypt 4. data breach 5. VPN 6. biometric data

**Exercise 6.** 1. a) delete Facebook 2. c) Donald Trump 3. c) the UK 4. b) the user's friends

Exercise 7. 1. personality 2. doing 3. delete 4. access

**Exercise 8.** 1. Former Facebook executives 2. 2014 3. 3 4. Fixing Facebook's platform

### Lesson 10. Cybercrime.

#### Exercise 1.

Call centre Thank you for taking my call. Before we continue, could you say

worker: the first and third digits of your security pin? Oh, I didn't catch

that, sorry. That's the second and fourth, please. Okay, lovely,

I've gone through. Did you see what I did there?

**Narrator:** It's a scam. Never reveal your full security pin even if you think

it's your bank calling. Learn how to protect yourself from fraud.

1. This was made as a TV commercial for a leading UK bank to inform its customers and the general public about how they might be tricked into giving their personal information or banking details.

- 2. Don't share this type of information with a caller because they may not be who they say they are.
- 3. Your own answers, but possibly older people, young people or people with few technical skills.

#### Exercise 2.

### Reading 1

Source: https://www.independent.co.uk/advisor/vpn/cybercrime-statistics

#### **Definitions:**

1. hacking 2. cons 3. fake

#### **Numbers:**

1. third 2. 125% 3. 31 % ≥ 26% 4. £4200 5. seconds

#### Exercise 3.

#### **Definitions:**

- 1. c) someone is to pay 2. a) harms others 3. g) dishonest
- 4. i) afford 5. b) threatening someone 6. h) release someone or something
- 7. e) asked 8. d) cannot read 9. f) wrong or cruel

#### Exercise 4.

#### **Sources:**

https://crimestoppers-uk.org/keeping-safe/online-safety/cyber-security-and-crimes

https://www.nationalcrimeagency.gov.uk/what-we-do/crime-threats/cyber-crime

https://www.derbyshire.police.uk/news/derbyshire/news/news/forcewide/202 1/july/how-to-avoid-getting-scammedwhen-buying-or-selling-online/

#### Text A:

- 1. credit rating
- 2. unsolicited
- 3. abuse

#### Text B:

- 1. encrypt
- 2. ransom
- 3. extort

#### **Text C:**

- 1. wrongdoing
- 2. fraudulent
- 3. costly

#### Exercise 5.

- 1. sounds ≀ this phrase means that something is presenting a false positive appearance, and there will be hidden costs or problems (semi-formal to informal)
- 2. results ≀ this fixed phrase is a message that people sometimes see when a website cannot cope with a high volume of traffic (formal)
- 3. purchase ≀ this means that someone has taken something dishonestly and kept it for themselves (informal)

#### **Exercise 6.** 1. A 2. C 3. C 4. A 5. B 6. B 7. A 8. B 9. C

**Exercise 7.** 1. ransom 2. scam(mer) 3. unsolicited 4. encrypt 5. con 6. costly 7. wrongdoing 8. pocketed 9. fraudulent 10. extort 11. (credit) rating 12. fake

| ЄВІ-2023: ДЕМОНСТРАЦІЙНИЙ ТЕСТ |      |      |      |      |  |  |  |  |
|--------------------------------|------|------|------|------|--|--|--|--|
|                                |      |      |      |      |  |  |  |  |
| 1 F                            | 2 D  | 3 E  | 4 H  | 5 A  |  |  |  |  |
| 6 C                            | 7 C  | 8 D  | 9 D  | 10 A |  |  |  |  |
| 11 B                           | 12 D | 13 B | 14 A | 15 C |  |  |  |  |
| 16 C                           | 17 B | 18 A | 19 D | 20 D |  |  |  |  |
| 21 B                           | 22 C | 23 B | 24 D | 25 A |  |  |  |  |
| 26 B                           | 27 D | 28 C | 29 A | 30 B |  |  |  |  |

### TRAINING TESTS AND EXERCISES

# **B2 READING TESTS**

### **Crypto addicts**

1. c 2. c 3. d 4. c 5. b 6. a

### Have we taken security too far?

1. b 2. c 3. a 4. a 5. c 6. b

### PARAGRAPH HEADINGS B2

# **Earth Calling Space: 'Is There Anyone Out There?'**

1. g 2. a 3. e 4. b 5. h

### **B2 VOCABULARY TESTS**

# **Checking your mobile phone**

1. d 2. d 3. b 4. a 5. d 6. c 7. a 8. b 9. c

### Planes can make it rain

1. b 2. c 3. b 4. a 5. b 6. d 7. c 8. b 9. c

### Karakamia wildlife sanctuary

1 a 2 d 3 b 4 c 5 a 6 d 6 b 8 a 9 d

### What is a coincidence?

1 a 2 a 3 a 4 c 5 a 6 c 7 d 8 b 9 c

### **B2 GRAMMAR TESTS**

- 1. 1-A 2-C 3-D 4-B 5-A 6-D 7-A 8-B 9-A 10-B 11-C 12-D 13-B 14-C
- 2. 1-C 2-B 3-D 4-A 5-C 6-B 7-A 8-D 9-C 10-D 11-A 12-B 13-D 14-D 15-C 16-A 17-C 18-D 19-B 20-A 21-A 22-C 23-B 24-D 25-C
- 3. 1-C 2-A 3-D 4-B 5-A 6-C 7-C 8-D 9-B 10-D 11-A 12-D 13-B 14-C 15-B 16-D 17-A 18-B 19-A 20-C 21-B 22-C 23-A 24-A 25-D
- 4. 1-A 2-C 3-B 4-C 5-A 6-A 7-D 8-B 9-B 10-D 11-C 12-A 13-B 14-C 15-B 16-D 17-A 18-D 19-D 20-A 21-B 22-D 23-C 24-C 25-B

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### Навчальне видання

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