
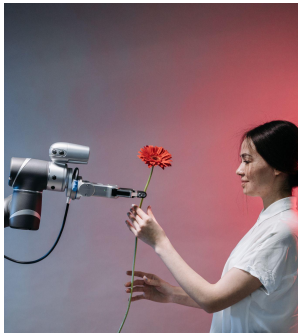


CANDIDATE NUMBER:

### Examen de admisión a primer año 2024

**Exercise 1: Read this text and choose a, b, c or d. Circle the correct option.**

#### AI, friend or enemy?

|    |   |
|----|---|
| 1  | Artificial intelligence, or AI for short, is a rapidly growing field that involves the development of computer systems that can perform tasks that would typically require human intelligence. These tasks include things such as recognizing speech and images, making decisions based on data, and even learning from experience.   |
| 5  | As technology continues to advance, so does the potential for AI to change and revolutionize the way we live and work forever.  |
| 10 | One of the most exciting applications of AI is in the field of robotics. Robots equipped with AI can be programmed to perform complex tasks such as manufacturing, transportation, and even surgery. These robots are designed to work alongside humans and improve their capabilities, ultimately leading to increased efficiency and productivity in various industries.                      |
| 15 | AI also has the potential to improve healthcare by providing more <b>accurate</b> diagnoses and personalized treatment plans. By analyzing large amounts of patient data, AI <b>algorithms</b> can identify patterns and make predictions about which treatments will be most effective for each individual patient. This can lead to better results and improved quality of life for patients. |
| 20 | However, there are also concerns about the impact of AI on society. Some experts worry that widespread adoption of AI could lead to job loss and economic <b>inequality</b> , as machines replace human workers in certain industries. Additionally, there are ethical concerns surrounding the use of AI in areas such as autonomous weapons and <b>surveillance</b> .                         |
| 25 | Despite these concerns, the potential benefits of AI are vast and cannot be ignored. As technology continues to evolve, it will be important for us to carefully consider the implications of AI and work towards creating a future where these technologies are used responsibly and ethically.  |
|    |    |

**CANDIDATE NUMBER:**

**1. What is artificial intelligence?**

- a) A field that involves the development of computer systems that can perform tasks that would typically require human intelligence.
- b) A field that involves the development of computer systems that can perform tasks that would typically require animal intelligence.
- c) A field that involves the development of computer systems that can perform tasks that would typically require plant intelligence.
- d) A field that involves the development of computer systems that can perform tasks that would typically require mineral intelligence.

**2. What is one of the most exciting applications of AI?**

- a) In the field of agriculture.
- b) In the field of transportation.
- c) In the field of medicine.
- d) In the field of fashion.

**3. What is the purpose of robots equipped with AI?**

- a) To work alongside humans and improve their capabilities.
- b) To replace humans and decrease their capabilities.
- c) To compete with humans and challenge their capabilities.
- d) To ignore humans and disregard their capabilities.

**4. How can AI algorithms identify patterns in patient data?**

- a) By analyzing random amounts of patient data.
- b) By analyzing small amounts of patient data.
- c) By analyzing large amounts of patient data.
- d) By analyzing no patient data.

**5. What are some ethical concerns surrounding the use of AI?**

- a) Autonomous animals and environment.
- b) Autonomous vehicles and communication.
- c) Autonomous buildings and energy.
- d) Autonomous weapons and surveillance.

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**Exercise 2: Answer the following questions.**

1. To what does "these robots" (line 9) refer?

.....  
.....  
.....

**/1**

2. Match these words to their definitions.

|                 |   |
|-----------------|---|
| 1. surveillance | a. a set of instructions that are followed in order to solve a problem or complete a task, often used in computer programming                   |
| 2. algorithm    | b. a situation where there is an unfair difference between groups of people or things, often related to social status, wealth, or opportunities |
| 3. inequality   | c. the act of closely watching someone or something, especially in order to prevent crime or monitor behavior                                   |
| 4. accurate     | d. correct or exact, without any mistakes or errors   |

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3. Name two ways in which AI can help human beings.

- a. \_\_\_\_\_  
b. \_\_\_\_\_

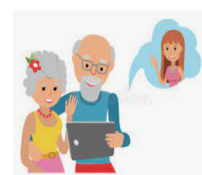
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**Exercise 3: Complete this text with ONE Word in each gap.**

**Digital habits across generations**

Today's grandparents are joining their grandchildren (1) \_\_\_\_\_ social media, but the different generations' online habits couldn't be more different. In the UK the over-55s are joining Facebook in increasing numbers, meaning that they will soon be (2) \_\_\_\_\_ site's second biggest user group, with 3.5 million users aged 55–64 and 2.9 million over-65s.



Sheila, aged 59, says, 'I joined to see what my grandchildren are doing, as videos and photos of them are posted (3) \_\_\_\_\_ my daughter. It's a much better way to see what they're doing (4) \_\_\_\_\_ waiting for letters and photos in the post.' Ironically, Sheila's grandchildren are less likely to use Facebook themselves. Children under 17 in the UK are leaving the site – only 2.2 million users are under 17 – but they're not going far from their smartphones. Chloe, aged 15, even sleeps with her phone. 'It's my alarm clock so I have to,' she says. 'I look at it (5) \_\_\_\_\_ I go to sleep and as soon as I wake up.' Unlike her grandmother's generation, Chloe's age group is spending so much time on their phones at home that they are missing out on spending (6) \_\_\_\_\_ with their friends in real life.

Sheila, on the other hand, has made contact with old friends from school she hasn't heard (7) \_\_\_\_\_ in forty years. 'We use Facebook to arrange to meet all over the country,' she says. 'It's changed my social life completely.' Peter, 38 and father of two teenagers, reports that he (8) \_\_\_\_\_ to be (express *habit in the past*) on his phone or laptop constantly. 'I was always connected and I felt like I was always working,' he says. So, in the evenings and at weekends, he takes his SIM card out of his smartphone and puts it into an old-style mobile phone that can only (9) \_\_\_\_\_ calls and send text messages. 'I'm not completely cut off from the world in case of emergencies, but the important thing is I'm setting a better example to my kids and spending more quality time with them.' Is it only a matter of time until the generation above and below Peter catches up (10) \_\_\_\_\_ the new trend for a less digital life?

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**Exercise 4: Complete this conversation between Peter and his psychologist.**

Psychologist: How long (1) \_\_\_\_\_ with your mobile phone today?

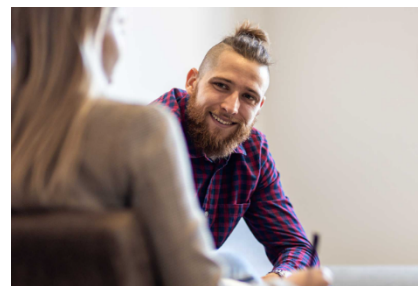
Peter: Only for four hours so far, and I am not planning to continue working today.

Psychologist: And when (2) \_\_\_\_\_ to stop using the phone at weekends?

Peter: Oh, while I (3) \_\_\_\_\_ my daughter suddenly came to me and said "Dad, you are always on the phone, can you play with us?" I felt so guilty that I made the decision immediately.

Psychologist: What about the other gadgets? Like your laptop or tablet? What (4) \_\_\_\_\_ in the future with them?

Peter: I am going to use them fewer hours every day too. My daughter gave me a good lesson. If you don't spend time with your children face to face, they (5) \_\_\_\_\_ adults who are always on the phone like me!



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**Exercise 5: Put the verbs in brackets into the correct tense or form.**

**Inventions you may not have known were introduced by women**

**Hedy Lamarr and WiFi**

(1) \_\_\_\_\_ (you ever/ think) about who invented the dishwasher, the car heater, or who were the first people to write algorithms and make coding easier? They (2) \_\_\_\_\_ (be) all women inventors! Usually when we (3) \_\_\_\_\_ (talk) about inventors, people like Thomas Edison or Alexander Graham Bell come to mind. But women inventors were equally amazing! For example, I (4) \_\_\_\_\_ (use) Wi-Fi right now to write this article, and that would not be possible without the work of a woman: Hedy Lamarr.



Hedy Lamarr was born in Vienna and acted in a few Austrian films in her short film career. In 1937, she (5) \_\_\_\_\_ (leave) her husband, a rich Austrian ammunition manufacturer, secretly moving to London. While she (6) \_\_\_\_\_ (live) there, she met Louis B. Mayer, head of Metro-Goldwyn-Mayer (MGM) studio, who offered her a Hollywood movie contract and began promoting her as 'the world's most beautiful woman'.

Hedy Lamarr was also an inventor. During World War II, she thought of creating a signal that (7) \_\_\_\_\_ (use a modal verb - control) torpedoes. So she and her friend George Antheil started to work on the early version of spread-spectrum communication and patented it in 1942. However, the US Navy (8) \_\_\_\_\_ (not want) to implement any inventions coming from outside the military. But it was used later on Navy ships during the Cuban Missile Crisis in 1962. Today, many of these techniques (9) \_\_\_\_\_ (incorporate) into Bluetooth technology and are similar to methods used in Wi-Fi.

Because of the value of their work, Hedy and George were incorporated into the National Inventors Hall of Fame in 2014. If you travel to Washington, you (10) \_\_\_\_\_ (be able) to see her photograph!

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**Exercise 6. Write a story in about 120 words about going through digital detox, which is a period of time during which electronic devices such as smartphones or computers are not used to reduce stress or focus on social interaction in the physical world. Include the following:**

**Use this beginning:** *Last year I went to a digital detox camp.*

**Include:**

- Where you went and who you went with
- Why you decided to go to this campsite
- What you had done before the trip
- What you did during your stay
- How you felt when you returned home and any advice you would give

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