

**General Knowledge
Higher Level
Paper 3**

19 May 2028

Zone A afternoon | **Zone B** morning | **Zone C** afternoon

Candidate name

55 minutes

Instructions to candidates

- Write your name in the box above.
- Do not open this examination paper until instructed to do so.
- Answer all the questions.
- For each multiple choice question, choose the answer you consider to be the best and indicate your choice by circling your answer.
- Responses to short answer questions must be written within the answer boxes provided.
- The maximum mark for this examination paper is [30 marks].

1. What is the capital of Canada?
 - A. Toronto
 - B. Ottawa
 - C. Vancouver
 - D. Montreal

2. Which planet is known as the Red Planet?
 - A. Earth
 - B. Mars
 - C. Jupiter
 - D. Venus

3. What is the main function of red blood cells?
 - A. Fight infection
 - B. Carry oxygen
 - C. Clot blood
 - D. Produce hormones

4. Which Shakespeare play features the characters Rosencrantz and Guildenstern?
 - A. Macbeth
 - B. Hamlet
 - C. King Lear
 - D. Othello

5. What is the chemical symbol for gold?
- A. Gd
 - B. Ag
 - C. Au
 - D. Go
6. In what year did World War II end?
- A. 1944
 - B. 1945
 - C. 1946
 - D. 1947
7. Which of the following is a renewable source of energy?
- A. Coal
 - B. Wind
 - C. Natural Gas
 - D. Nuclear
8. What programming language is primarily used for web development alongside HTML and CSS?
- A. Python
 - B. Java
 - C. JavaScript
 - D. C++

9. Who painted the Mona Lisa?

- A. Vincent van Gogh
- B. Pablo Picasso
- C. Leonardo da Vinci
- D. Claude Monet

10. What is the boiling point of water at sea level in Celsius?

- A. 90°C
- B. 95°C
- C. 100°C
- D. 105°C

11. A city has recently implemented a smart traffic management system that uses real-time data from sensors and cameras to optimize traffic flow. The system also collects and stores driver movement data to improve future predictions.

(a) What are two potential benefits of using real-time data in traffic systems?

[2]

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(b) Explain one concern related to collecting and storing driver movement data.

[4]

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- 12.** A company is using AI-powered recruitment software to filter job applications. The software ranks candidates based on qualifications, but some users have raised concerns about bias in the algorithm.

(a) How might AI improve the efficiency of the hiring process?

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(b) Why could the use of AI in hiring lead to biased outcomes?

[4]

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- 13.** A school has adopted a bring-your-own-device (BYOD) policy that encourages students to use their personal laptops and tablets during class. This has led to debates among teachers and parents.

(a) Describe one advantage and one disadvantage of the BYOD policy for students. [2]

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(b) What measures could the school take to ensure equal access for all students? [4]

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