

# AI Generated Mathematics

0 | **Mathematics** | First Term — 2025-2026 | Duration: 60 minutes | Total Marks: 35

**Instructions:** Answer all questions.

## SECTION A — MULTIPLE CHOICE QUESTIONS

1. What does the term 'science' mean in the context of psychology? (1 mark)
  - A. Disorderly knowledge
  - B. Ordered and orderly knowledge
  - C. Mental confusion
  - D. Comprehension only
2. Which of the following is an example of unobservable behaviour? (1 mark)
  - A. Jumping
  - B. Thinking
  - C. Reading
  - D. Fighting
3. What is the broader view of human behaviour in psychology? (1 mark)
  - A. Only observable actions
  - B. Includes functions that are not directly observable, such as thoughts and feelings
  - C. Only physical environment
  - D. Only social environment
4. What is the core principle of human behaviour and environment? (1 mark)
  - A. Human behaviour occurs in a vacuum
  - B. Human behaviour occurs in an environment
  - C. Physical environment only affects human behaviour
  - D. Social environment only affects human behaviour
5. What is the hot yam illustration an example of? (1 mark)

*[Diagram: A person holding a hot yam and dropping it]*

Fig 1. The Hot Yam Illustration

- A. Observable behaviour only
  - B. Unobservable behaviour only
  - C. Response to a stimulus, including both observable and unobservable behaviour
  - D. Physical environment only
6. What is the set of numbers beginning with 1, where each successive number is greater

than its predecessor by 1? (1 mark)

- A. Whole numbers
- B. Counting numbers
- C. Natural numbers
- D. Integers

7. Which of the following is NOT another name for the base ten number system? (1 mark)

- A. Binary system
- B. Decimal system
- C. Denary system
- D. Hindu-Arabic system

8. What is the value of the digit 5 in the number 82,537? (1 mark)

- A. 500
- B. 50
- C. 5
- D. 5,000

9. What is the place value of the digit 8 in the number 82,537? (1 mark)

- A. Ones
- B. Tens
- C. Hundreds
- D. Ten thousands

10. What is the term for the value of a digit based on its position in a number? (1 mark)

- A. Face value
- B. Digit value
- C. Place value
- D. Number value

## SECTION C — SHORT ANSWER / THEORY

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11. Explain the difference between observable and unobservable behaviour, including examples of each. (5 marks)

*[Diagram: A table comparing observable and unobservable behaviour]*

Table 1. Observable vs Unobservable Behaviour

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12. Describe the types of environment that affect human behaviour, including examples of each. (5 marks)

*[Diagram: A diagram showing the physical and social environment]*

Fig 2. Types of Environment

13. Explain the concept of place value in the base ten number system. Use the number 82,537 as an example to show the place value and actual value of each digit. (5 marks)

*[Diagram: Table showing the place value of each digit in the number 82,537]*

Fig 1. Place value of digits in 82,537

14. Describe the difference between counting numbers, whole numbers, and natural numbers. Give the set notation for each. (5 marks)

15. Explain the concept of the base ten number system and its characteristics. Express the number 3,456 in expanded notation showing powers of 10. (5 marks)

*[Diagram: Number line showing the base ten notation for the number 56]*

Fig 2. Base ten notation for 56

