

AI Generated Mathematics — ANSWER KEY (Not for Students)

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

Instructions: Answer all questions.

ANSWER KEY

1. What does the term 'science' mean in the context of psychology? → **B. Ordered and orderly knowledge**
2. Which of the following is an example of unobservable behaviour? → **B. Thinking**
3. What is the broader view of human behaviour in psychology? → **B. Includes functions that are not directly observable, such as thoughts and feelings**
4. What is the core principle of human behaviour and environment? → **B. Human behaviour occurs in an environment**
5. What is the hot yam illustration an example of? → **C. Response to a stimulus, including both observable and unobservable behaviour**
6. Explain the difference between observable and unobservable behaviour, including examples of each.
7. Describe the types of environment that affect human behaviour, including examples of each.
8. What is the set of numbers beginning with 1, where each successive number is greater than its predecessor by 1? → **C. Natural numbers**
9. Which of the following is NOT another name for the base ten number system? → **A. Binary system**
10. What is the value of the digit 5 in the number 82,537? → **A. 500**
11. What is the place value of the digit 8 in the number 82,537? → **D. Ten thousands**
12. What is the term for the value of a digit based on its position in a number? → **C. Place value**
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.
14. Describe the difference between counting numbers, whole numbers, and natural numbers. Give the set notation for each.
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.