

Satish Chandra Memorial School

Class - VII

CLASS TEST- 5

Subject - Computer

Topic - Future of AI & Algorithmic
Intelligence

Maximum Marks - 10

Time: 20 Mins

General Instructions: Write date, Class test -5, Question and Answer with option number only. All questions are compulsory. Each question carries 1 mark

Choose the correct option for the following:

1. What is an algorithm?

- a. A computer program that can think like a human brain
- b. A set of step-by-step instructions given in a sequential manner to solve a problem
- c. A type of artificial intelligence that works without human help
- d. A pictorial representation using special symbols

2. Which of the following best describes information processing?

- a. Converting raw data directly into binary code
- b. Using only the right side of the brain to analyse information
- c. The process of acquiring, storing, analysing, retrieving, and displaying data
- d. Programming a computer using only 1s and 0s

3. In binary representation, what does the number 1 represent in computer systems?

- a. The OFF electrical signal
- b. The ASCII code for the letter 'A'
- c. The ON electrical signal
- d. The right side of the brain's processing

4. Which of the following is TRUE about flowcharts?

- a. They are used only for advanced AI programming
- b. They are pictorial representations of algorithms using special symbols
- c. They can only be created using binary code
- d. They represent the third wave of artificial intelligence

5. What is the primary purpose of conditional statements in programming?

- a. To convert information into binary code
- b. To create flowcharts
- c. To instruct the computer to make a decision based on a condition
- d. To process data in the left side of the brain

6. Which wave of AI includes Advanced Processing that works without human help?

- a. First Wave
- b. Second Wave
- c. Third Wave
- d. Fourth Wave

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7. How many symbols are in the ASCII character set?

- a. 64 symbols
- b. 128 symbols
- c. 256 symbols
- d. 512 symbols

8. Which of the following is NOT mentioned as a future prospect of AI?

- a. Automated transportation
- b. Smart homes and cities
- c. Space exploration
- d. Traffic management

9. What is a key feature of AI-powered Smart Highways?

- a. They eliminate the need for human drivers
- b. They monitor road conditions and check traffic levels
- c. They convert all vehicles to electric power
- d. They are built underground to save space

10. In the context of the IF-THEN-ELSE conditional statement, what happens when the condition is "False"?

- a. The program stops running
- b. The "IF" block will be executed
- c. The "ELSE" block will be executed
- d. The program returns to the beginning