

Satish Chandra Memorial School

Class - VIII

CLASS TEST- 5

Subject - Computer

Topic - Iterative Statements, Jump Statement in Python &

AI & its Domains

Marks - 15

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

Choose correct option for the following:

1. What type of statements in Python allow one or more statements to be executed repeatedly based on a condition?

- A. Iterative statements
- B. Jump statements
- C. Conditional statements
- D. Sequential statements

2. Which loop is commonly used when the number of iterations is known in advance?

- A. do-while loop
- B. for loop
- C. while loop
- D. repeat loop

3. What does the range(3, 9) function in Python generate?

- A. A sequence of [3, 4, 5, 6, 7, 8, 9]
- B. A sequence of [3, 4, 5, 6, 7, 8]
- C. A sequence of [3, 5, 7]
- D. A sequence of [3, 6, 9]

4. Which statement is used to exit a loop prematurely based on a condition?

- A. exit
- B. continue
- C. break
- D. return

5. In a while loop, when is the condition checked?

- A. After executing the statements inside the loop
- B. Before executing the statements inside the loop
- C. Both before and after executing the statements
- D. Only after the first iteration

6. What is the purpose of the continue statement in Python?

- A. To exit the loop completely
- B. To skip the remaining statements in the current iteration and move to the next iteration
- C. To restart the loop from the beginning
- D. To pause the execution of the program

7. Which AI category is programmed to perform a specific task like Alexa or Siri?

- A. General AI
- B. Super AI
- C. Narrow AI
- D. Artificial General Intelligence

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8. What is a key advantage of AI in process automation?

- A. It requires more human intervention
- B. It allows humans to engage in more demanding and creative tasks
- C. It makes decisions based on emotions
- D. It increases the cost of production

9. Which domain of AI enables computers to see, identify, and process images?

- A. Natural Language Processing
- B. Computer Vision
- C. Big Data
- D. Machine Learning

10. What is Natural Language Processing (NLP) in AI?

- A. The ability of an AI system to understand human language
- B. The ability of an AI system to create visual content
- C. The ability of an AI system to analyse numerical data
- D. The ability of an AI system to predict future events

11. What is one of the risks or barriers of Artificial Intelligence mentioned in the document?

- A. Increased employment opportunities
- B. Lower cost of creation
- C. Making humans lazy
- D. Enhanced emotional intelligence

12. Which of the following is NOT an example of Computer Vision application?

- A. Face recognition systems
- B. Biometric software
- C. Weather prediction models
- D. Selfie-based authentication

13. In the range() function, what does the step_size parameter control?

- A. The starting point for generating numbers
- B. The position up to which numbers are generated
- C. The increment or decrement value
- D. The number of iterations

14. Which AI category is hypothetical and yet to be created, with machines superior to humans in every aspect?

- A. Narrow AI
- B. General AI
- C. Super AI
- D. Hybrid AI

15. What technology helps a machine learning model process an image by breaking it down to pixels?

- A. Natural Language Processing
- B. Convolutional Neural Network
- C. Deep Learning
- D. Big Data Analytics