

Chapter 04 – Computer Science (Class 10)

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Multiple Choice Question

1. Which of the following is the primary benefit of integrating Mathematics and Statistics with Computer Science in Data Science?

- a) Improved data visualization
- b) Better forecasting
- c) Increased accuracy
- d) Better decision making

Correct Answer: d) Better decision making

2. Which of the following best describes the relationship between Data Science and Artificial Intelligence?

- a) Data Science is a subset of Artificial Intelligence
- b) Artificial Intelligence is a tool used in Data Science
- c) Data Science and Artificial Intelligence are unrelated
- d) Data Science enables Artificial Intelligence

Correct Answer: a) Data Science is a subset of Artificial Intelligence

3. The Turing Test, proposed by Alan Turing in 1950, measures a machine's ability to exhibit intelligent behavior. Which of the following is the fundamental assumption underlies this test?

- a) Humans are better
- b) Machines are equal
- c) Intelligence levels vary
- d) Machines copy humans

Correct Answer: d) Machines copy humans

4. Which of the following should be considered critically while developing AI-powered chatbots and virtual assistants?

- a) User experience
- b) Data security
- c) Contextual awareness
- d) Emotional intelligence

Correct Answer: b) Data security

5. What ethical consideration arises from the integration of Artificial Intelligence (AI) into daily life devices?

- a) Job displacement due to automation
- b) Increased energy consumption
- c) Improved customer service
- d) Enhanced data security

Correct Answer: a) Job displacement due to automation

6. Which of the following fields of Artificial Intelligence (AI) enables smartphones to recognize faces and unlock devices?

- a) NLP
- b) Computer vision
- c) Deep learning
- d) Neural networks

Correct Answer: b) Computer vision

7. A company wants to develop a system that categorizes customer feedback into positive, negative, or neutral. Which learning model would be most suitable?

- a) Supervised learning
- b) Unsupervised learning
- c) Reinforcement learning
- d) Deep learning

Correct Answer: a) Supervised learning

8. In a Reinforcement Learning model, what is the primary function of rewards and penalties provided as feedback to the agent?

- a) Labelling data
- b) Evaluating performance
- c) Improving action choices
- d) Classifying outcomes

Correct Answer: c) Improving action choices

9. Which stage of the data science life cycle ensures the model's accuracy, reliability, and compliance with privacy rules?

- a) Model Deployment
- b) Model Evaluation
- c) Data Analysis
- d) Maintenance and Monitoring

Correct Answer: b) Model Evaluation

10. Which of the following is the key characteristic of the “Data Cleaning” stage in the data science life cycle?

- a) Data collection
- b) Error removal and data organization
- c) Pattern identification
- d) Model deployment

Correct Answer: b) Error removal and data organization

The End

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