

# COMPUTER-SCIENCE Exam Paper

## Subjective Questions

1. Explain the concept of algorithms and their importance in problem-solving.

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Answer: \_\_\_\_\_

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2. What is the difference between procedural and object-oriented programming?

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Answer: \_\_\_\_\_

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3. Describe the working of a computer network and its components.

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Answer: \_\_\_\_\_

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4. What is the concept of recursion and how does it differ from iteration?

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Answer: \_\_\_\_\_

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5. Explain the different types of data structures and their applications.

Answer: \_\_\_\_\_

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6. Discuss the importance of databases and explain the difference between SQL and NoSQL databases.

Answer: \_\_\_\_\_

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7. What is the difference between a compiler and an interpreter?

Answer: \_\_\_\_\_

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8. Explain the working of an operating system and its role in managing computer hardware.

Answer: \_\_\_\_\_

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9. What are the main principles of cybersecurity and how can they be implemented?

Answer: \_\_\_\_\_

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10. Describe the concept of machine learning and its applications in modern technology.

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Answer: \_\_\_\_\_

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## MCQ Questions

11. What does CPU stand for?

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|----------------------------|-----------------------------|
| a) Central Process Unit    | b) Central Program Unit     |
| c) Central Processing Unit | d) Central Programming Unit |
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12. Which language is primarily used for web development?

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|-----------|---------------|
| a) Python | b) Java       |
| c) C      | d) JavaScript |
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13. What is the primary function of an operating system?

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|---------------------------------|---------------------|
| a) Manage hardware and software | b) Play videos      |
| c) Send emails                  | d) Run applications |
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14. What does HTML stand for?

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|-----------------------------------|----------------------------------|
| a) HyperText Markup Language      | b) HyperText Management Language |
| c) Hyper Transfer Markup Language | d) HyperText Marking Language    |
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15. Which data structure uses LIFO (Last In, First Out)?

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|----------|----------------|
| a) Queue | b) Stack       |
| c) Array | d) Linked List |
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