

# Generated Question Paper

## Section A: Objective Questions

**\*\*COMPUTER SCIENCE EXAMINATION\*\***

**\*\*INSTRUCTIONS:\*\***

- \* This examination consists of 10 multiple-choice questions.
- \* Choose the correct answer for each question.
- \* Each question carries equal marks.
- \* Do not attempt to answer a question if you are not sure of the correct answer.
- \* Use a pen or pencil to mark your answer in the space provided.

**\*\*SECTION A\*\***

**\*\*QUESTIONS 1-10\*\***

**\*\*QUESTION 1\*\***

What is the primary function of the CPU's Arithmetic Logic Unit (ALU)?

- a) To store data and instructions
- b) To control the flow of data between components
- c) To perform arithmetic and logical operations
- d) To manage the computer's memory

**\*\*ANSWER:\*\* c) To perform arithmetic and logical operations**

**\*\*QUESTION 2\*\***

Which of the following is an example of a non-volatile memory device?

- a) RAM (Random Access Memory)
- b) ROM (Read-Only Memory)
- c) Cache Memory
- d) Virtual Memory

**\*\*ANSWER:\*\* b) ROM (Read-Only Memory)**

**\*\*QUESTION 3\*\***

What is the purpose of the section in an HTML document?

- a) To display the document's title
- b) To define the document's metadata
- c) To specify the document's styles
- d) To contain the document's content

**\*\*ANSWER:\*\*** b) To define the document's metadata

**\*\*QUESTION 4\*\***

What is the difference between a Hypertext link and an Anchor?

- a) A Hypertext link is used to connect to another web page, while an Anchor is used to create a link within the same web page.
- b) A Hypertext link is used to create a link within the same web page, while an Anchor is used to connect to another web page.
- c) A Hypertext link is used to display an image, while an Anchor is used to create a link to a different web page.
- d) A Hypertext link is used to create a link to a different web page, while an Anchor is used to display an image.

**\*\*ANSWER:\*\*** a) A Hypertext link is used to connect to another web page, while an Anchor is used to create a link within the same web page.

**\*\*QUESTION 5\*\***

What is the purpose of encryption in computer security?

- a) To protect against unauthorized access to data
- b) To improve the performance of a computer system
- c) To detect and prevent malware attacks
- d) To create a backup of important data

**\*\*ANSWER:\*\*** a) To protect against unauthorized access to data

**\*\*QUESTION 6\*\***

Which of the following is an example of a cybercrime?

- a) Hacking into a secure computer system
- b) Creating a virus to infect other computers
- c) Stealing sensitive information from a database
- d) All of the above

**\*\*ANSWER:\*\*** d) All of the above

**\*\*QUESTION 7\*\***

What is the purpose of a Flowchart in programming?

- a) To create a visual representation of an algorithm
- b) To debug a program
- c) To optimize a program's performance
- d) To create a user interface

**\*\*ANSWER:\*\*** a) To create a visual representation of an algorithm

**\*\*QUESTION 8\*\***

What is the difference between a Decimal number system and a Binary number system?

- a) A Decimal number system uses 10 digits, while a Binary number system uses 2 digits.
- b) A Decimal number system uses 2 digits, while a Binary number system uses 10 digits.
- c) A Decimal number system is used for arithmetic operations, while a Binary number system is used for logical operations.
- d) A Decimal number system is used for logical operations, while a Binary number system is used for arithmetic operations.

**\*\*ANSWER:\*\*** a) A Decimal number system uses 10 digits, while a Binary number system uses 2 digits.

**\*\*QUESTION 9\*\***

What is the purpose of a Protocol in computer networking?

- a) To ensure the secure transfer of data between devices
- b) To manage the flow of data between devices
- c) To provide a common language for communication between devices
- d) To optimize the performance of a network

**\*\*ANSWER:\*\*** c) To provide a common language for communication between devices

**\*\*QUESTION 10\*\***

What is the purpose of a Firewall in computer security?

- a) To protect against unauthorized access to a network
- b) To detect and prevent malware attacks
- c) To create a backup of important data
- d) To optimize the performance of a computer system

**\*\*ANSWER:\*\*** a) To protect against unauthorized access to a network

# Section B: Subjective Questions

**\*\*COMPUTER SCIENCE SUBJECTIVE QUESTION PAPER\*\***

**\*\*SECTION A: SHORT QUESTIONS\*\***

**\*\*PART 1\*\***

1. What is the difference between volatile and non-volatile memory? Explain with an example.

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2. Describe the concept of encryption and decryption. How are they used in computer security?

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3. What is a flowchart? Explain the different types of flowchart symbols and their uses.

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4. Define a hyperlink. How is it used in web development?

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5. What is the purpose of the head section in an HTML document?

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6. Explain the concept of binary number system. How is it used in computer programming?

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**\*\*PART 2\*\***

1. What is the difference between a compiler and an interpreter? Explain with an example.

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2. Describe the concept of data privacy. How is it ensured in computer systems?

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3. What is a network topology? Explain the different types of network topologies.

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4. Define a Boolean expression. Explain the different types of Boolean operators.

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5. What is the purpose of a database management system? Explain with an example.

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6. Explain the concept of cybercrime. How can it be prevented?

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**\*\*PART 3\*\***

1. What is the difference between a client-server model and a peer-to-peer model? Explain with an example.

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2. Describe the concept of algorithm efficiency. How is it measured?

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3. What is the purpose of a firewall in computer security? Explain with an example.

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4. Define a protocol. Explain the different types of protocols used in computer networks.

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5. Explain the concept of cloud computing. How is it used in modern computing?

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6. What is the purpose of a web browser? Explain the different types of web browsers.

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**\*\*SECTION B: LONG QUESTIONS\*\***

**\*\*QUESTION 1\*\***

Explain the concept of computer networks. Describe the different types of computer networks and their uses. How do they enable communication between different devices? (16 marks)

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**\*\*QUESTION 2\*\***

Describe the concept of database management systems. Explain the different types of database models and their uses. How do they enable efficient data storage and retrieval? (16 marks)

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**\*\*QUESTION 3\*\***

Explain the concept of computer security. Describe the different types of security threats and their prevention methods. How can encryption and decryption be used to ensure data security? (16 marks)

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