

Computer Fundamentals MCQ Computer MCQ Questions And Answers PDF

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Question 1

Which of the following techniques in artificial intelligence is modeled on the human brain's structure and function to process information through interconnected nodes?

Options:

- A. Neural Networks
- B. Decision Trees
- C. Genetic Algorithms
- D. Fuzzy Logic

Answer: A

Explanation:

Neural Networks mimic the human brain by using layers of interconnected nodes (neurons) to analyze and process data. This architecture allows them to learn complex patterns and make decisions, distinguishing them from other techniques like decision trees or genetic algorithms.

Question 2

What is the primary function of RAM in a computer?

Options:

- A. Permanent data storage

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- B. Temporary data storage
- C. Processing arithmetic operations
- D. Managing system power

Answer: B

Explanation:

RAM, or Random Access Memory, is used for temporarily storing data and programs that are actively being used by the computer. It provides fast read and write access for the processor, which improves computing efficiency. Unlike permanent storage, such as a hard drive, RAM loses its data when the computer is turned off. This temporary storage is essential for smooth system performance during active computing sessions.

Question 3

Which characteristic best defines vector graphics in computer graphics?

Options:

- A. Resolution dependence
- B. Scalability without loss of quality
- C. Limited color spectrum
- D. Use of pixelated grids

Answer: B

Explanation:

Vector graphics are based on mathematical equations and geometric primitives, allowing for images that scale to any size without loss of quality. Unlike raster graphics that depend on resolution, vector graphics maintain crispness regardless of enlargement, making them ideal for high-resolution displays and print media.

Question 4

Which layer of the OSI model is responsible for establishing, managing, and terminating connections?

Options:

- A. Physical
- B. Presentation
- C. Session
- D. Application

Answer: C

Explanation:

The Session layer of the OSI model is designed to manage and control the dialog between two devices. It establishes, maintains, and terminates the communication sessions, ensuring that data transfers are properly synchronized. This question challenges your understanding of the OSI model, specifically focusing on the functions assigned to each layer, which is a fundamental concept in computer networks.

Question 5

Which of the following best describes phishing?

Options:

- A. A hacker's attempt to exploit software vulnerabilities
- B. An unauthorized access method to gain physical entry
- C. A fraudulent attempt to trick individuals into providing sensitive information through deceptive emails or websites
- D. A process used to encrypt data transmission

Answer: C

Explanation:

Phishing involves using deceptive communication to trick individuals into providing confidential data. The attack typically occurs via emails or fake websites designed to look legitimate. This method exploits human trust rather than technical vulnerabilities, making it a significant cybersecurity threat.

Question 6

Which data structure implements the Last-In-First-Out (LIFO) principle?

Options:

- A. Queue
- B. Stack
- C. Linked List
- D. Graph

Answer: B

Explanation:

Stack operates on the Last-In-First-Out (LIFO) mechanism, where the last element added to the structure is removed first. This fundamental property distinguishes it from other data structures like queues and linked lists.

Question 7

In the Computer MCQ Questions And Answers exam in India, which key in a relational database uniquely identifies each record in a table?

Options:

- A. Candidate Key
- B. Primary Key
- C. Foreign Key
- D. Composite Key

Answer: B

Explanation:

A Primary Key uniquely identifies every record in a table, ensuring that no duplicate values exist. It is a fundamental concept in relational databases and essential for maintaining data integrity.

Question 8

In a computer hardware system, which device is primarily responsible for executing instructions?

Options:

- A. Hard Disk Drive
- B. Central Processing Unit
- C. Power Supply Unit
- D. Motherboard

Answer: B

Explanation:

The Central Processing Unit (CPU) is known as the brain of the computer because it performs the instruction processing and execution. Other components such as the hard disk drive store data permanently, while the power supply provides electrical power and the motherboard connects various hardware components.

Question 9

Which protocol is used for secure communication over the internet?

Options:

- A. HTTP
- B. FTP

C. SMTP

D. HTTPS

Answer: D

Explanation:

HTTPS stands for HyperText Transfer Protocol Secure. It is the protocol used for secure communication over the internet by encrypting data exchanged between a client and a server. This ensures that the information transmitted remains confidential and unaltered during transit.

Question 10

Which component of an operating system is primarily responsible for managing the execution of processes?

Options:

A. Memory Manager

B. Process Scheduler

C. I/O Controller

D. File System

Answer: B

Explanation:

The process scheduler is the component that assigns CPU time to active processes, ensuring that each process receives the necessary resources to execute efficiently. It decides the order and duration each process runs based on scheduling policies. This makes Option B correct, while the other options focus on different responsibilities within the operating system.

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