

RRB JE - 2024

CS / IT



All Topics Level - Moderate

MCQ



Q1. What is the function of the ALU in a computer?

- A) Store data temporarily
- B) Perform arithmetic and logical operations
- C) Manage input and output operations
- D) Control memory access

Answer: B) Perform arithmetic and logical operations

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Q2. Which memory is used to store the BIOS settings?

- A) RAM
- B) ROM
- C) CMOS
- D) Hard Disk

Answer: C) CMOS

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Q3. Which type of software directly interacts with computer hardware?

- A) Application Software
- B) Utility Software
- C) System Software
- D) Middleware

Answer: C) System Software

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Q4. Cache memory is placed between _____.

- A) CPU and RAM
- B) Hard Disk and RAM
- C) RAM and Power Supply
- D) Keyboard and CPU

Answer: A) CPU and RAM

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Q5. The process of loading an operating system into memory is called?

- A) Formatting
- B) Booting
- C) Installing
- D) Executing

Answer: B) Booting

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Q6. The maximum number of IP addresses in a class C network is:

- A) 128
- B) 254
- C) 256
- D) 512

Answer: B) 254

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Q7. Which network device works at the Data Link Layer of the OSI model?

- A) Hub
- B) Switch
- C) Router
- D) Gateway

Answer: B) Switch



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Q8. Which type of address is used to send data to all devices on a network?

- A) Unicast
- B) Multicast
- C) Broadcast
- D) Anycast

Answer: C) Broadcast

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Q9. What is the purpose of the ARP protocol?

- A) Resolve IP addresses to MAC addresses
- B) Resolve domain names to IP addresses
- C) Encrypt network traffic
- D) Control congestion in a network

Answer: A) Resolve IP addresses to MAC addresses

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Q10. Which of the following is a valid private IP address range?

- A) 192.168.0.0 to 192.168.255.255
- B) 172.32.0.0 to 172.47.255.255
- C) 200.1.1.1 to 200.255.255.255
- D) 10.256.0.0 to 10.256.255.255

Answer: A) 192.168.0.0 to 192.168.255.255

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Q11. In Java, which of the following is a wrapper class?

- A) int
- B) float
- C) Integer
- D) char

Answer: C) Integer

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Q12. Which of the following is the correct syntax for defining a pointer in C?

A) `int ptr;`

B) `int *ptr;`

C) `int &ptr;`

D) `pointer int ptr;`

Answer: B) `int *ptr;`

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Q13. Which feature of OOP allows code reusability?

- A) Encapsulation
- B) Inheritance
- C) Polymorphism
- D) Abstraction

Answer: B) Inheritance

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Q14. Which of the following statements is true about constructors in C++?

- A) Constructors cannot be overloaded
- B) A constructor has the same name as the class
- C) A constructor can return a value
- D) A class can have only one constructor

Answer: B) A constructor has the same name as the class

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Q15. Which OOP principle binds code and data together?

- A) Encapsulation
- B) Polymorphism
- C) Abstraction
- D) Inheritance

Answer: A) Encapsulation

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Q16. What is function overriding in Java?

- A) Defining multiple functions with the same name but different parameters
- B) A subclass providing a specific implementation of a method defined in its superclass
- C) A function calling itself
- D) Using private methods in a class

Answer: B) A subclass providing a specific implementation of a method defined in its superclass

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Q17. In Java, which keyword is used to refer to the parent class?

- A) base
- B) super
- C) parent
- D) this

Answer: B) super

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Q18. Which software model is best suited for small projects with well-defined requirements?

- A) Waterfall
- B) Spiral
- C) Agile
- D) RAD

Answer: A) Waterfall

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Q19. Which of the following is not a software process model?

- A) Spiral
- B) Incremental
- C) Heuristic
- D) RAD

Answer: C) Heuristic

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Q20. Which testing ensures that new code does not break existing functionality?

- A) Unit Testing
- B) Regression Testing
- C) System Testing
- D) Integration Testing

Answer: B) Regression Testing

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Q21. Which of the following is a non-functional requirement?

- A) User Interface
- B) Security
- C) Database Design
- D) Business Logic

Answer: B) Security

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Q22. Which normal form removes transitive dependencies?

- A) 1NF
- B) 2NF
- C) 3NF
- D) BCNF

Answer: C) 3NF

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Q23. What type of key is used to uniquely identify a row in a table?

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

Answer: B) Primary Key

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Q24. Which data structure is best suited for implementing a priority queue?

- A) Stack
- B) Queue
- C) Linked List
- D) Heap

Answer: D) Heap

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Q25. What is the primary purpose of the subnet mask in an IP address?

- A) To identify the default gateway
- B) To define network and host portions of the address
- C) To determine the physical address of a device
- D) To encrypt network traffic

Answer: B) To define network and host portions of the address

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Q26. Which of the following protocols is used for secure data transmission over the Internet?

- A) HTTP
- B) FTP
- C) SSH
- D) Telnet

Answer: C) SSH

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Q27. What is the main advantage of fiber optic cables over copper cables?

- A) Lower cost
- B) Faster data transmission and less interference
- C) Requires less maintenance
- D) Simpler installation

Answer: B) Faster data transmission and less interference

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Q28. What is the maximum transmission speed of a standard Ethernet network (IEEE 802.3)?

- A) 10 Mbps
- B) 100 Mbps
- C) 1 Gbps
- D) 100 Gbps

Answer: C) 1 Gbps

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Q29. Which of the following protocols is used to automatically assign IP addresses to devices in a network?

- A) DNS
- B) HTTP
- C) DHCP
- D) FTP

Answer: C) DHCP

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Q30. Which layer of the OSI model is responsible for data compression and encryption?

- A) Session Layer
- B) Network Layer
- C) Presentation Layer
- D) Data Link Layer

Answer: C) Presentation Layer



Thank You...

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