



SESSION 14 & 15 – MCQs

IT Act • LDAP / Active Directory • Blockchain

◇ EASY (Q1–Q10)

Q1. The Information Technology Act, 2000 in India primarily deals with:

- A. Network routing
- B. Cyber laws and electronic transactions
- C. Encryption algorithms
- D. Operating systems

Q2. Which year was the IT Act enacted in India?

- A. 1995
- B. 1998
- C. 2000
- D. 2005

Q3. Which section of the IT Act addresses unauthorized access and damage to computer systems?

- A. Section 43
- B. Section 65
- C. Section 66F
- D. Section 79

Q4. LDAP stands for:

- A. Lightweight Directory Access Protocol
- B. Local Directory Authentication Process
- C. Logical Data Access Protocol
- D. Linked Data Authorization Protocol

Q5. Active Directory is primarily used for:

- A. Data encryption
- B. Centralized authentication and authorization
- C. Web hosting
- D. Blockchain mining

Q6. Which protocol does Active Directory use for authentication by default?

- A. RADIUS
- B. Kerberos
- C. OAuth
- D. OpenID

Q7. Blockchain is BEST described as a:

- A. Centralized database
- B. Distributed immutable ledger
- C. Relational DBMS
- D. File system

Q8. Which cryptographic technique ensures integrity in blockchain?

- A. Symmetric encryption
- B. Hashing
- C. Encoding
- D. Compression

Q9. Which authority issues Aadhaar-related cyber guidelines under IT governance?

- A. UIDAI
- B. CERT-In
- C. RBI
- D. TRAI

Q10. Which blockchain component links blocks together securely?

- A. Nonce
 - B. Merkle tree
 - C. Previous block hash
 - D. Timestamp
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◇ MEDIUM (Q11–Q25)

Q11. Which IT Act amendment introduced stricter cybercrime provisions?

- A. 2002
- B. 2004
- C. 2008
- D. 2011

Q12. Which IT Act section deals with identity theft?

- A. Section 43
- B. Section 65
- C. Section 66C
- D. Section 67

Q13. Which LDAP component defines the hierarchical structure of directory entries?

- A. Schema
- B. Attribute
- C. Distinguished Name (DN)
- D. Directory Information Tree (DIT)

Q14. Which Active Directory object is used to apply security policies?

- A. Domain
- B. Forest
- C. Organizational Unit (OU)
- D. Global Catalog

Q15. Which LDAP authentication method is MOST secure?

- A. Anonymous bind
- B. Simple bind
- C. SASL bind with TLS
- D. Plain bind

Q16. Which Active Directory role stores a writable copy of the directory database?

- A. Global Catalog
- B. Domain Controller
- C. DNS Server
- D. Client machine

Q17. Which blockchain feature prevents retroactive data modification?

- A. Decentralization
- B. Transparency
- C. Immutability
- D. Scalability

Q18. Which consensus algorithm is used by Bitcoin?

- A. Proof of Stake
- B. Proof of Authority
- C. Proof of Work
- D. PBFT

Q19. Which IT Act concept provides limited liability protection to intermediaries?

- A. Cyber tribunal
- B. Safe harbour
- C. Digital signature
- D. Adjudication

Q20. Which AD attack exploits excessive user privileges?

- A. Phishing
- B. Privilege escalation
- C. Replay attack
- D. DoS

Q21. Which blockchain type is MOST suitable for enterprise use?

- A. Public blockchain
- B. Private blockchain

- C. Permissionless blockchain
- D. Anonymous blockchain

Q22. Which IT Act section deals with cyber terrorism?

- A. Section 66A
- B. Section 66C
- C. Section 66F
- D. Section 67B

Q23. Which AD protocol enables directory queries?

- A. Kerberos
- B. LDAP
- C. NTLM
- D. SMB

Q24. Which blockchain component efficiently verifies large numbers of transactions?

- A. Nonce
- B. Block header
- C. Merkle tree
- D. Consensus node

Q25. Which security risk is COMMON to both AD and blockchain private key systems?

- A. Data replication
- B. Key compromise
- C. Network latency
- D. Compression failure

◇ HARD (Q26–Q40)

Q26. Which IT Act limitation MOST impacts modern cloud-based cybercrime investigations?

- A. Weak encryption definitions
- B. Jurisdictional challenges
- C. Lack of hashing standards
- D. Absence of PKI

Q27. Which AD misconfiguration MOST enables lateral movement attacks?

- A. Strong password policies
- B. Flat domain structure
- C. MFA enforcement
- D. Auditing enabled

Q28. Which blockchain attack occurs when a single entity controls majority mining power?

- A. Sybil attack
- B. Eclipse attack

- C. 51% attack
- D. Replay attack

Q29. Which LDAP security control prevents unauthorized directory access?

- A. Indexing
- B. Access Control Lists (ACLs)
- C. Replication
- D. Global Catalog

Q30. Which IT Act provision MOST directly supports e-Governance?

- A. Section 43
- B. Section 4
- C. Section 66F
- D. Section 79

Q31. Which AD security failure would have the WIDEST organizational impact?

- A. Single user compromise
- B. OU deletion
- C. Domain Admin credential compromise
- D. Password expiry

Q32. Which blockchain property MOST complicates data privacy compliance (e.g., GDPR)?

- A. Transparency
- B. Decentralization
- C. Immutability
- D. Scalability

Q33. Which LDAP attack involves capturing credentials over plaintext channels?

- A. Replay attack
- B. LDAP sniffing
- C. Dictionary attack
- D. Side-channel attack

Q34. Which IT Act section covers protection of personal data and privacy (post-amendment interpretation)?

- A. Section 43A
- B. Section 66
- C. Section 67
- D. Section 79

Q35. Which blockchain design choice MOST improves auditability?

- A. Private transactions
- B. Immutable public ledger
- C. Off-chain storage
- D. Encryption only

Q36. Which AD defense MOST reduces privilege escalation risk?

- A. Flat OU structure
- B. Least privilege and tiered admin model
- C. Password reuse
- D. Anonymous binds

Q37. Which blockchain component ensures consensus participants agree on transaction order?

- A. Hash function
- B. Digital signature
- C. Consensus algorithm
- D. Wallet

Q38. Which IT Act challenge arises from rapid technological evolution?

- A. Over-enforcement
- B. Technology-neutral drafting limitations
- C. Excessive penalties
- D. Too many amendments

Q39. Which LDAP/AD practice MOST aligns with Zero Trust principles?

- A. Trusting internal network
- B. Continuous authentication and authorization
- C. Static ACLs only
- D. Anonymous binds

Q40. Which statement BEST summarizes IT Act, AD, and Blockchain together?

- A. All replace traditional security models
- B. Legal, identity, and distributed trust pillars of cyber security
- C. Only blockchain ensures security
- D. IT Act is purely technical