Cloud Storage and Security- Multiple Choice Questions(CO1)

UNIT I   INTRODUCTION TO CLOUD STORAGE

Cloud storage – Scope and need for cloud storage – Definition of cloud storage services – Use cases for cloud storage services – Copy – Backup – Synchronization of Devices – Sharing Files.

Question 1:
What is the primary function of cloud storage? (CO1)

Question 1:

Option_a: To provide unlimited internet access

Option_b: To store and manage data on remote servers

Option_c: To enhance processing speed of computers

Option_d: To replace RAM in computers

Correct_option: To store and manage data on remote servers

Question 2:

Which of the following best defines cloud storage? (CO1)

Question 2:

Option_a: A way to store files on a USB drive

Option_b: A data storage model where digital data is stored on remote servers accessed via the internet

Option_c: A method of transferring files between local devices

Option_d: A storage method that only works offline

Correct_option: A data storage model where digital data is stored on remote servers accessed via the internet

Question 3:

Which of the following is an example of cloud storage? (CO1)

Question 3:

Option_a: Google Drive

Option_b: Microsoft Word

Option_c: VLC Media Player

Option_d: Adobe Photoshop

Correct_option: Google Drive

Question 4:

Which of the following is NOT a key advantage of cloud storage? (CO1)

Question 4:

Option_a: Accessibility from anywhere

Option_b: Scalability

Option_c: High maintenance costs for users

Option_d: Automatic backups

Correct_option: High maintenance costs for users

Question 5:

Cloud storage is essential for businesses because: (CO1)

Question 5:

Option_a: It enables secure data access and collaboration

Option_b: It replaces all on-premise storage solutions

Option_c: It increases the need for physical servers

Option_d: It works without an internet connection

Correct_option: It enables secure data access and collaboration

Question 6:

Which of the following companies offers cloud storage services? (CO1)

Question 6:

Option_a: Dropbox

Option_b: Instagram

Option_c: Netflix

Option_d: WhatsApp

Correct_option: Dropbox

Question 7:

Which is NOT a feature of cloud storage services? (CO1)

Question 7:

Option_a: Data encryption

Option_b: Pay-as-you-go pricing model

Option_c: Physical proximity to the stored data

Option_d: Integration with multiple devices

Correct_option: Physical proximity to the stored data

Question 8:

Which cloud storage model allows users to store, manage, and access data over the internet without owning physical hardware? (CO1)

Question 8:

Option_a: Public cloud

Option_b: Local storage

Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

Question 9:

Cloud storage is commonly used for: (CO1)

Option_a: Video editing in offline mode

Option_b: Data backup and recovery

Option_c: Increasing RAM performance

Option_d: Reducing the speed of internet browsing

Correct_option: Data backup and recovery

Question 10:

Which of the following is an example of cloud-based file sharing? (CO1)

Option_a: Google Drive

Option_b: Microsoft Word

Option_c: Notepad

Option_d: Command Prompt

Correct_option: Google Drive

Question 11:

What is the primary function of cloud storage? (CO1)

Option_a: To provide unlimited internet access

Option_b: To store and manage data on remote servers

Option_c: To enhance processing speed of computers

Option_d: To replace RAM in computers

Correct_option: To store and manage data on remote servers

Question 12:

Which of the following best defines cloud storage? (CO1)

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Correct_option: A data storage model where digital data is stored on remote servers accessed via the internet

Question 13:
Which of the following is an example of cloud storage? (CO1)

Question 13:

Option_a: Google Drive

Option_b: Microsoft Word

Option_c: VLC Media Player

Option_d: Adobe Photoshop

Correct_option: Google Drive

Question 14:

Which of the following is NOT a key advantage of cloud storage? (CO1)

Question 14:

Option_a: Accessibility from anywhere

Option_b: Scalability

Option_c: High maintenance costs for users

Option_d: Automatic backups

Correct_option: High maintenance costs for users

Question 15:

Cloud storage is essential for businesses because: (CO1)

Question 15:

Option_a: It enables secure data access and collaboration

Option_b: It replaces all on-premise storage solutions

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Option_d: It works without an internet connection

Correct_option: It enables secure data access and collaboration

Question 16:

Which of the following companies offers cloud storage services? (CO1)

Question 16:

Option_a: Dropbox

Option_b: Instagram

Option_c: Netflix

Option_d: WhatsApp

Correct_option: Dropbox

Question 17:

Which is NOT a feature of cloud storage services? (CO1)

Question 17:

Option_a: Data encryption

Option_b: Pay-as-you-go pricing model

Option_c: Physical proximity to the stored data

Option_d: Integration with multiple devices

Correct_option: Physical proximity to the stored data

Question 18:

Which cloud storage model allows users to store, manage, and access data over the internet without owning physical hardware? (CO1)

Question 18:

Option_a: Public cloud

Option_b: Local storage

Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

Question 19:

Cloud storage is commonly used for: (CO1)

Question 19:

Option_a: Video editing in offline mode

Option_b: Data backup and recovery

Option_c: Increasing RAM performance

Option_d: Reducing the speed of internet browsing

Correct_option: Data backup and recovery

Question 20:

Which of the following is an example of cloud-based file sharing? (CO1)

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Correct_option: Google Drive

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Correct_option: Google Drive

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Option_b: Scalability

Option_c: High maintenance costs for users

Option_d: Automatic backups

Correct_option: High maintenance costs for users

Question 25:

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Option_a: It enables secure data access and collaboration

Option_b: It replaces all on-premise storage solutions

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Correct_option: Dropbox

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Correct_option: Physical proximity to the stored data

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Option_b: Local storage

Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

Question 29:
Cloud storage is commonly used for: (CO1)

Question 29:

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Correct_option: Data backup and recovery

Question 30:
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Option_c: Notepad

Option_d: Command Prompt

Correct_option: Google Drive

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Option_d: WhatsApp

Correct_option: Dropbox

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Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

Question 39:

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Question 39:

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Option_b: Data backup and recovery

Option_c: Increasing RAM performance

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Correct_option: Data backup and recovery

Question 40:

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Option_c: Notepad

Option_d: Command Prompt

Correct_option: Google Drive

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Correct_option: Google Drive

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Option_d: WhatsApp

Correct_option: Dropbox

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Question 48:

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Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

Question 49:
Cloud storage is commonly used for: (CO1)

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Option_d: Command Prompt

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Correct_option: Dropbox

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Option_c: External hard drives

Option_d: USB flash drives

Correct_option: Public cloud

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Correct_option: Google Drive

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Correct_option: Public cloud

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Which cloud storage model allows users to store, manage, and access data over the internet without owning physical hardware? (CO1)

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Question 79:

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Correct_option: Dropbox

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Correct_option: Google Drive

UNIT II   PRINCIPLES OF CLOUD STORAGE SERVICES

User's view – Features - Interfaces – Proprietary Software Clients – Browser Interface – API – Optimization – Deduplication – Delta Encoding – Compression – Security Engineer's View – Registration and Login – Transport Security – Encryption – File sharing – Multiple devices – Update functionality – Server location – Classification of security requirements.

UNIT II - MCQ

Question 1:
Which of the following is an advantage of cloud storage from a user's perspective? (CO2)
Question 1:
Option_a: Data can only be accessed from a single device
Option_b: Storage capacity is limited to local hardware
Option_c: Data is accessible from multiple devices anywhere
Option_d: Cloud storage does not require an internet connection
Correct_option: Data is accessible from multiple devices anywhere

Question 2:
Which cloud storage interface allows users to interact with files using a graphical representation via the web? (CO2)
Question 2:
Option_a: Command-line Interface
Option_b: Browser Interface
Option_c: File Transfer Protocol (FTP)
Option_d: Direct Memory Access (DMA)
Correct_option: Browser Interface

Proprietary Software Clients – API – Optimization

Question 3:
Which of the following best describes the role of an API in cloud storage services? (CO2)
Question 3:
Option_a: It serves as a graphical user interface for accessing cloud files
Option_b: It ensures cloud storage is only accessible through a web browser
Option_c: It allows applications to interact with cloud storage services programmatically
Option_d: It eliminates the need for encryption in cloud storage
Correct_option: It allows applications to interact with cloud storage services programmatically

Question 4:
Which cloud storage technique helps reduce storage redundancy by eliminating duplicate copies of data? (CO2)
Question 4:
Option_a: Compression
Option_b: Deduplication
Option_c: Encryption
Option_d: Delta Encoding
Correct_option: Deduplication

Question 5:
How does Delta Encoding optimize cloud storage? (CO2)
Question 5:
Option_a: By storing only changes between versions instead of entire files
Option_b: By compressing data before it is uploaded
Option_c: By encrypting files before transmission
Option_d: By increasing the storage capacity
Correct_option: By storing only changes between versions instead of entire files

Question 6:
Which encryption method ensures that cloud storage providers cannot access user data? (CO2)
Question 6:
Option_a: Symmetric Encryption
Option_b: Asymmetric Encryption
Option_c: -to- Encryption
Option_d: Hashing
Correct_option: -to- Encryption

Question 7:
Why is Transport Layer Security (TLS) important in cloud storage? (CO2)
Question 7:
Option_a: It speeds up the file upload process
Option_b: It prevents unauthorized access during data transmission
Option_c: It compresses large files before sing them
Option_d: It removes duplicate files from cloud storage
Correct_option: It prevents unauthorized access during data transmission

Question 8:
Why is server location important in cloud storage security? (CO2)
Question 8:
Option_a: It determines the storage speed of files

Option_b: It affects legal and compliance requirements related to data privacy
Option_c: It controls the maximum file size that can be stored
Option_d: It decides the number of user accounts that can access cloud storage
Correct_option: It affects legal and compliance requirements related to data privacy

Question 9:
Which security requirement ensures that cloud-stored data remains intact and unaltered? (CO2)
Question 9:
Option_a: Availability
Option_b: Integrity
Option_c: Confidentiality
Option_d: Authentication
Correct_option: Integrity

Question 10:
How does file-sharing security impact cloud storage users? (CO2)
Question 10:
Option_a: It prevents any modifications to shared files
Option_b: It allows files to be accessed without any authentication
Option_c: It ensures that only authorized users can view or modify shared data
Option_d: It restricts access to files based on file size
Correct_option: It ensures that only authorized users can view or modify shared data

Question 11:
How does cloud storage improve accessibility for users compared to local storage? (CO2)
Question 11:
Option_a: By providing unlimited local storage
Option_b: By enabling data access from any internet-connected device
Option_c: By eliminating the need for file organization
Option_d: By reducing file transfer speeds
Correct_option: By enabling data access from any internet-connected device

Question 12:
Which factor differentiates a proprietary software client from a browser interface in cloud storage? (CO2)
Question 12:
Option_a: A proprietary client requires installation, while a browser interface does not
Option_b: A proprietary client can be used without internet access
Option_c: A browser interface offers offline storage
Option_d: A proprietary client does not require authentication

Correct_option: A proprietary client requires installation, while a browser interface does not Proprietary Software Clients – API – Optimization

Question 13:
What is the primary benefit of using an API for cloud storage? (CO2)
Question 13:
Option_a: It allows third-party applications to integrate with cloud services
Option_b: It removes the need for internet access
Option_c: It increases cloud storage capacity
Option_d: It eliminates the need for encryption
Correct_option: It allows third-party applications to integrate with cloud services

Question 14:
Which cloud storage optimization technique focuses on reducing redundancy by eliminating duplicate data? (CO2)
Question 14:
Option_a: Compression
Option_b: Deduplication
Option_c: Encryption
Option_d: Delta Encoding
Correct_option: Deduplication

Question 15: STAR
THow does Delta Encoding improve cloud storage efficiency? (CO2)
Question 15:
Option_a: By storing only the changes between file versions instead of full files
Option_b: By encrypting files before uploading
Option_c: By increasing network bandwidth for transfers
Option_d: By reducing the storage of metadata

Correct_option: By storing only the changes between file versions instead of full files

Question 16:
Which encryption technique ensures that cloud storage providers cannot access stored user data? (CO2)
Question 16:

Option_a: Symmetric Encryption

Option_b: Asymmetric Encryption
Option_c: -to- Encryption
Option_d: Hashing
Correct_option: -to- Encryption

Question 17:
Why is Transport Layer Security (TLS) essential for cloud storage services? (CO2)
Question 17:
Option_a: It speeds up file transfers
Option_b: It encrypts data during transmission to prevent unauthorized access
Option_c: It removes duplicate files from cloud storage
Option_d: It allows files to be accessed without authentication
Correct_option: It encrypts data during transmission to prevent unauthorized access

Question 18:
How does server location impact cloud storage security and compliance? (CO2)
Question 18:
Option_a: It determines storage speed
Option_b: It affects data privacy laws and regulatory compliance
Option_c: It limits the number of accounts that can be created
Option_d: It reduces storage redundancy
Correct_option: It affects data privacy laws and regulatory compliance

Question 19:
Which security principle ensures that cloud-stored data remains unchanged and unaltered? (CO2)
Question 19:
Option_a: Availability
Option_b: Integrity
Option_c: Confidentiality
Option_d: Authentication
Correct_option: Integrity

Question 20:
How does cloud file-sharing security protect users? (CO2)
Question 20:
Option_a: It prevents any modifications to shared files
Option_b: It allows files to be accessed without authentication
Option_c: It ensures only authorized users can view or modify shared data
Option_d: It restricts access to files based on size

Correct_option: It ensures only authorized users can view or modify shared data

Question 31:
How does cloud storage improve accessibility for users compared to local storage? (CO1)
Question 31:
Option_a: By providing unlimited local storage
Option_b: By enabling data access from any internet-connected device
Option_c: By eliminating the need for file organization
Option_d: By reducing file transfer speeds
Correct_option: By enabling data access from any internet-connected device

Question 32:
Which factor differentiates a proprietary software client from a browser interface in cloud storage? (CO2)
Question 32:
Option_a: A proprietary client requires installation, while a browser interface does not
Option_b: A proprietary client can be used without internet access
Option_c: A browser interface offers offline storage
Option_d: A proprietary client does not require authentication
Correct_option: A proprietary client requires installation, while a browser interface does not

Question 33:
What is the primary benefit of using an API for cloud storage? (CO3)
Question 33:
Option_a: It allows third-party applications to integrate with cloud services
Option_b: It removes the need for internet access
Option_c: It increases cloud storage capacity
Option_d: It eliminates the need for encryption
Correct_option: It allows third-party applications to integrate with cloud services

Question 34:
Which cloud storage optimization technique focuses on reducing redundancy by eliminating duplicate data? (CO3)
Question 34:
Option_a: Compression
Option_b: Deduplication
Option_c: Encryption
Option_d: Delta Encoding

Correct_option: Deduplication

Question 35:
How does Delta Encoding improve cloud storage efficiency? (CO3)
Question 35:
Option_a: By storing only the changes between file versions instead of full files
Option_b: By encrypting files before uploading
Option_c: By increasing network bandwidth for transfers
Option_d: By reducing the storage of metadata
Correct_option: By storing only the changes between file versions instead of full files

Question 36:
Which encryption technique ensures that cloud storage providers cannot access stored user data? (CO4)
Question 36:
Option_a: Symmetric Encryption
Option_b: Asymmetric Encryption
Option_c: -to- Encryption
Option_d: Hashing
Correct_option: -to- Encryption

Question 37:
Why is Transport Layer Security (TLS) essential for cloud storage services? (CO4)
Question 37:
Option_a: It speeds up file transfers
Option_b: It encrypts data during transmission to prevent unauthorized access
Option_c: It removes duplicate files from cloud storage
Option_d: It allows files to be accessed without authentication
Correct_option: It encrypts data during transmission to prevent unauthorized access

Question 38:
How does server location impact cloud storage security and compliance? (CO5)
Question 38:
Option_a: It determines storage speed
Option_b: It affects data privacy laws and regulatory compliance
Option_c: It limits the number of accounts that can be created
Option_d: It reduces storage redundancy
Correct_option: It affects data privacy laws and regulatory compliance

Question 39:

Which security principle ensures that cloud-stored data remains unchanged and unaltered? (CO5)

Question 39:

Option_a: Availability

Option_b: Integrity

Option_c: ConfidentialityO

ption_d: Authentication

Correct_option: Integrity

Question 40:

How does cloud file-sharing security protect users? (CO5)

Question 40:

Option_a: It prevents any modifications to shared files

Option_b: It allows files to be accessed without authentication

Option_c: It ensures only authorized users can view or modify shared data

Option_d: It restricts access to files based on size

Correct_option: It ensures only authorized users can view or modify shared data

Question 41:

What is the primary reason for classifying security requirements in cloud computing? (CO1)

Question 41:

Option_a: To make cloud services more expensive

Option_b: To improve compliance and risk management

Option_c: To eliminate the need for encryption

Option_d: To reduce internet bandwidth usage

Correct_option: To improve compliance and risk management

Question 42:

Which of the following is a key factor in determining cloud server location? (CO1)

Question 42:

Option_a: The climate of the region

Option_b: Data sovereignty and legal regulations

Option_c: The number of cloud users in the area

Option_d: The popularity of the service provider

Correct_option: Data sovereignty and legal regulations

Question 43:

How does encryption contribute to cloud security classification? (CO2)

Question 43:

Option_a: By reducing data redundancy

Option_b: By ensuring data confidentiality and integrity
Option_c: By limiting server access speed
Option_d: By making cloud storage unnecessary
Correct_option: By ensuring data confidentiality and integrity

Question 44:
What is the main concern when selecting a server location for cloud services? (CO2)
Question 44:
Option_a: The proximity to users
Option_b: Compliance with jurisdictional laws and policies
Option_c: The ability to install local software
Option_d: The presence of physical security guards
Correct_option: Compliance with jurisdictional laws and policies

Question 45:
Which security classification requires strict access control mechanisms in the cloud?
(CO3)
Question 45:
Option_a: Public data classification
Option_b: Confidential data classification
Option_c: Unstructured data classification
Option_d: General-purpose classification
Correct_option: Confidential data classification

Question 46:
Why is multi-factor authentication (MFA) important in cloud security? (CO3)
Question 46:
Option_a: It speeds up user access to cloud services
Option_b: It adds an additional layer of security to authentication processes
Option_c: It reduces storage costs
Option_d: It eliminates the need for encryption
Correct_option: It adds an additional layer of security to authentication processes

Question 47:
What impact does server location have on cloud security and performance? (CO4)
Question 47:
Option_a: No impact, as all servers function the same
Option_b: Affects latency, compliance, and security policies
Option_c: Determines the color of the cloud interface
Option_d: Has no role in disaster recovery planning

Correct_option: Affects latency, compliance, and security policies

Question 48:
Which of the following best describes "data sovereignty" in cloud computing? (CO4)
Question 48:
Option_a: The right of users to access any cloud service
Option_b: The legal ownership and regulatory requirements of data based on its location
Option_c: The ability of a cloud provider to delete customer data anytime
Option_d: The classification of cloud storage types
Correct_option: The legal ownership and regulatory requirements of data based on its location

Question 49:
What is the primary concern when choosing a cloud storage server location? (CO1)
Question 49:
Option_a: Reducing physical distance for faster access
Option_b: Ensuring compliance with data sovereignty laws
Option_c: Minimizing electricity consumption
Option_d: Increasing the number of data centers worldwide
Correct_option: Ensuring compliance with data sovereignty laws
Question50:
Which security measure ensures that data remains confidential during transit to a cloud server? (CO2)
Question 50:
Option_a: Data encryption
Option_b: Load balancing
Option_c: Deduplication
Option_d: Compression
Correct_option: Data encryption

Question 51:
How does cloud data classification improve security? (CO3)
Question 51:
Option_a: By categorizing data based on its sensitivity
Option_b: By distributing data equally across all servers
Option_c: By limiting access to the fastest servers
Option_d: By compressing data before storage
Correct_option: By categorizing data based on its sensitivity

Question 52:

Why is multi-factor authentication essential for cloud storage security? (CO1)
Question 52:
Option_a: It speeds up the login process
Option_b: It reduces depency on passwords alone
Option_c: It provides unlimited access to stored data
Option_d: It helps in optimizing storage space
Correct_option: It reduces depency on passwords alone

Question 53:
Which factor plays the most crucial role in determining cloud storage security compliance? (CO2)
Question 53:
Option_a: Server location and jurisdiction
Option_b: Number of data centers
Option_c: User-frily interfaces
Option_d: Internet speed
Correct_option: Server location and jurisdiction

Question 54:
What is a key advantage of using geo-redundancy in cloud storage? (CO3)
Question 54:
Option_a: Ensures continuous access during regional failures
Option_b: Reduces encryption complexity
Option_c: Increases local network speed
Option_d: Minimizes storage costs significantly
Correct_option: Ensures continuous access during regional failures

Question 55:
How does deduplication improve cloud storage efficiency? (CO1)
Question 55:
Option_a: By removing duplicate copies of data
Option_b: By increasing file access speed
Option_c: By limiting user access
Option_d: By preventing unauthorized access
Correct_option: By removing duplicate copies of data

Question 56:
Which of the following best describes delta encoding in cloud storage? (CO2)
Question 56:
Option_a: Storing only the changes made to a file rather than the entire file

Option_b: Encrypting data with multiple keys

Option_c: Creating multiple copies of data in different locations

Option_d: Reducing access speed to protect against attacks

Correct_option: Storing only the changes made to a file rather than the entire file

Question 57:

Which protocol is primarily used to secure data transmission over the internet? (CO1)
Question 57:

Option_a: HTTP
Option_b: FTP
Option_c: TLS
Option_d: UDP
Correct_option: TLS

Question 58:

How does Transport Layer Security (TLS) protect data in transit? (CO2)
Question 58:

Option_a: By encrypting data -to-
Option_b: By providing compression algorithms
Option_c: By using a public-private key infrastructure only
Option_d: By hashing passwords before sing them
Correct_option: By encrypting data -to-

Question 59:

What role does a Certificate Authority (CA) play in transport security? (CO3)
Question 59:

Option_a: It encrypts files at the application layer
Option_b: It issues digital certificates for authentication
Option_c: It ensures physical security of cloud servers
Option_d: It replaces public-key cryptography
Correct_option: It issues digital certificates for authentication

Question 60:

Which of the following is NOT a feature of SSL/TLS? (CO2)
Question 60:

Option_a: Data encryption
Option_b: Integrity verification
Option_c: Server authentication
Option_d: Reducing network latency
Correct_option: Reducing network latency

Question 61:

Why is Perfect Forward Secrecy (PFS) important in TLS security? (CO4)
Question 61:

Option_a: It ensures that past communications remain secure even if the private key is compromised
Option_b: It allows immediate decryption of old messages
Option_c: It replaces symmetric encryption with asymmetric encryption
Option_d: It prevents users from sharing encryption keys
Correct_option: It ensures that past communications remain secure even if the private key is compromised

Question 62:

Which encryption technique is used in modern cloud storage for securing user data? (CO1)
Question 62:

Option_a: AES-256
Option_b: MD5
Option_c: SHA-1
Option_d: ROT13
Correct_option: AES-256

Question 63:

Why is symmetric encryption considered faster than asymmetric encryption? (CO2)
Question 63:

Option_a: It uses a single key for both encryption and decryption
Option_b: It requires key pairs for each communication
Option_c: It does not require key exchange

Option_d: It does not encrypt the data
Correct_option: It uses a single key for both encryption and decryption

Question 64:

Which encryption algorithm is primarily used for securing email communication? (CO3)
Question 64:

Option_a: RSA
Option_b: SHA-256
Option_c: Blowfish
Option_d: DES
Correct_option: RSA

Question 65:

What is a major drawback of using RSA encryption for large data files? (CO4)
Question 65:

Option_a: It is computationally expensive and slow
Option_b: It cannot be decrypted once encrypted
Option_c: It requires a symmetric key exchange
Option_d: It does not support multiple keys
Correct_option: It is computationally expensive and slow

Question 66:

Which key management practice is crucial in cloud security? (CO5)
Question 66:

Option_a: Storing private keys in plaintext
Option_b: Using hardware security modules (HSMs)
Option_c: Sharing encryption keys with all users
Option_d: Avoiding key rotation
Correct_option: Using hardware security modules (HSMs)

Question 67:

Which protocol is commonly used for secure file transfers? (CO1)
Question 67:

Option_a: FTP

Option_b: SFTP
Option_c: TFTP
Option_d: SMB
Correct_option: SFTP

Question 68:

What is the primary risk associated with public file-sharing links in cloud storage? (CO2)
Question 68:

Option_a: Unauthorized access to files
Option_b: Increased bandwidth usage
Option_c: Redundant data storage
Option_d: High latency
Correct_option: Unauthorized access to files

Question 69:

Which of the following file-sharing techniques offers the highest security? (CO3)
Question 69:
Option_a: -to- encrypted file sharing
Option_b: Public link sharing
Option_c: Email attachments
Option_d: Unencrypted peer-to-peer transfer
Correct_option: -to- encrypted file sharing

Question 70:

What is the purpose of access control mechanisms in cloud file-sharing systems? (CO4)
Question 70:
Option_a: To restrict file access based on user permissions
Option_b: To increase download speeds
Option_c: To delete files automatically after sharing
Option_d: To allow unlimited access to all users
Correct_option: To restrict file access based on user permissions

Question 71:

Which of the following best describes role-based access control (RBAC) in file-sharing systems? (CO5)
Question 71:
Option_a: Users are granted access based on their organizational role
Option_b: Users can access any file on the system
Option_c: Permissions are assigned randomly

Option_d: All users share the same credentials
Correct_option: Users are granted access based on their organizational role

Question 72:

Which of the following best describes multi-factor authentication (MFA)? (CO1)
Question 1:

Option_a: Using multiple usernames for login
Option_b: Combining two or more authentication methods
Option_c: Only using passwords for security
Option_d: Allowing automatic logins after registration
Correct_option: Combining two or more authentication methods

Question 72:

What is the primary security risk associated with weak user passwords? (CO2)
Question 72:

Option_a: Slow network performance
Option_b: Increased risk of brute-force attacks
Option_c: Difficult password recovery
Option_d: Higher storage requirements
Correct_option: Increased risk of brute-force attacks

Question 73:

Which authentication method is considered the most secure for login systems? (CO3)
Question 73:
Option_a: Single sign-on (SSO)
Option_b: Password-only authentication
Option_c: Multi-factor authentication (MFA)
Option_d: Using public Wi-Fi for login
Correct_option: Multi-factor authentication (MFA)

Question 74:

What is the purpose of CAPTCHA during user registration? (CO4)
Question 74:

Option_a: To verify human users and prevent automated bots
Option_b: To increase website loading speed
Option_c: To replace passwords with images

Option_d: To store user credentials securely
Correct_option: To verify human users and prevent automated bots

Question 75:

Why is email verification recommed during the registration process? (CO5)
Question 75:

Option_a: To confirm the legitimacy of the user's email address
Option_b: To allow multiple accounts with the same email
Option_c: To prevent login authentication
Option_d: To disable password reset features
Correct_option: To confirm the legitimacy of the user's email address

Question 76:

What is a common attack against login forms that do not limit failed attempts? (CO3)
Question 76:

Option_a: SQL Injection
Option_b: Brute-force attack
Option_c: Man-in-the-middle attack
Option_d: Cross-site scripting (XSS)
Correct_option: Brute-force attack

Question 77:

Which technique helps protect login credentials from interception during transmission? (CO4)
Question 77:

Option_a: Storing passwords in plaintext
Option_b: Using TLS encryption
Option_c: Allowing login through HTTP
Option_d: Hardcoding credentials in source code
Correct_option: Using TLS encryption

Question 78:

Which of the following is a recommed practice for secure password storage? (CO5)
Question 78:

Option_a: Storing passwords in plaintext
Option_b: Using one-way hashing with salt
Option_c: Encrypting passwords using a symmetric key
Option_d: Allowing password reuse
Correct_option: Using one-way hashing with salt

Question 79:

What is the purpose of session management in login security? (CO3)
Question 79:

Option_a: To allow multiple logins from different users
Option_b: To prevent session hijacking attacks
Option_c: To store user passwords securely
Option_d: To block all login attempts
Correct_option: To prevent session hijacking attacks

Question 80:

Which of the following is an example of a security risk in registration and login systems? (CO2)
Question 80:

Option_a: Implementing CAPTCHA
Option_b: Enforcing password complexity rules
Option_c: Allowing users to log in without authentication
Option_d: Using two-factor authentication
Correct_option: Allowing users to log in without authentication

Question 81:

Which of the following best describes the concept of deduplication in cloud storage? (CO1)
Question 81:
Option_a: Storing duplicate copies of the same data for redundancy
Option_b: Eliminating redundant copies of data to save storage space
Option_c: Encrypting data before storing it in the cloud
Option_d: Increasing the size of stored data for better security
Correct_option: Eliminating redundant copies of data to save storage space

Question 82:

How does block-level deduplication differ from file-level deduplication? (CO2)
Question 82:
Option_a: Block-level deduplication removes entire duplicate files
Option_b: File-level deduplication removes only identical portions of files
Option_c: Block-level deduplication eliminates duplicate data segments within files
Option_d: Both methods store every file separately
Correct_option: Block-level deduplication eliminates duplicate data segments within files

Question 83:

What is the main advantage of delta encoding in cloud storage? (CO3)
Question 83:
Option_a: It reduces storage requirements by storing only changes in data
Option_b: It increases network latency for faster retrieval
Option_c: It encrypts data for improved security
Option_d: It prevents any modifications to stored data
Correct_option: It reduces storage requirements by storing only changes in data

Question 84:

Which type of compression achieves the highest data reduction but may lead to loss of information? (CO4)
Question 84:
Option_a: Lossless compression
Option_b: Lossy compression
Option_c: Deduplication
Option_d: Delta encoding
Correct_option: Lossy compression

Question 85:

How does deduplication contribute to bandwidth optimization in cloud storage? (CO5)
Question 85:
Option_a: By reducing the amount of data that needs to be transmitted
Option_b: By increasing redundancy in stored data
Option_c: By increasing storage costs
Option_d: By duplicating data for faster access
Correct_option: By reducing the amount of data that needs to be transmitted

Question 86:

Which of the following is a potential security concern with data deduplication? (CO2)
Question 86:
Option_a: It increases storage costs significantly
Option_b: It may allow attackers to infer the presence of sensitive files

Option_c: It prevents users from accessing their own data
Option_d: It increases computational load on cloud servers
Correct_option: It may allow attackers to infer the presence of sensitive files

Question 87:

Which compression algorithm is commonly used for lossless data compression? (CO3)
Question 87:
Option_a: JPEG
Option_b: MP3
Option_c: GZIP
Option_d: H.264
Correct_option: GZIP

Question 88:

What is a major drawback of delta encoding when applied to frequently changing data? (CO4)
Question 88:
Option_a: It reduces compression efficiency due to constant updates
Option_b: It increases data redundancy
Option_c: It increases storage space consumption
Option_d: It requires storing entire datasets instead of changes
Correct_option: It reduces compression efficiency due to constant updates

Question 89:

How does delta encoding improve data transfer efficiency in cloud applications? (CO3)
Question 89:
Option_a: By sing only differences instead of entire files
Option_b: By duplicating files for faster access
Option_c: By increasing data transfer size
Option_d: By converting all files into binary format
Correct_option: By sing only differences instead of entire files

Question 90:

Which of the following best describes the role of compression in cloud storage? (CO1)
Question 90:
Option_a: To reduce the size of stored and transmitted data
Option_b: To encrypt data for security
Option_c: To create multiple copies of data
Option_d: To improve the processing speed of cloud servers
Correct_option: To reduce the size of stored and transmitted data

Question 91:

What is the primary function of a browser interface in cloud storage? (CO1)
Question 91:
Option_a: To allow users to access cloud storage through a web browser
Option_b: To replace desktop applications entirely
Option_c: To encrypt all data automatically
Option_d: To prevent unauthorized access to cloud data
Correct_option: To allow users to access cloud storage through a web browser

Question 92:

Which protocol is commonly used for secure browser-based access to cloud storage? (CO2)
Question 92:
Option_a: FTP
Option_b: HTTP
Option_c: HTTPS
Option_d: Telnet
Correct_option: HTTPS

Question 93:

Which of the following best describes an API in the context of cloud storage? (CO3)
Question 93:
Option_a: A hardware component for data encryption
Option_b: A software interface that allows applications to interact with cloud storage
Option_c: A security protocol for cloud authentication
Option_d: A physical connection for storage devices
Correct_option: A software interface that allows applications to interact with cloud storage

Question 94:

Which API model is commonly used for cloud storage interactions? (CO4)
Question 94:
Option_a: RESTful API
Option_b: SMTP API
Option_c: BIOS API
Option_d: Telnet API
Correct_option: RESTful API

Question 95:

How does optimization improve cloud storage performance? (CO5)
Question 95:
Option_a: By increasing redundancy in stored data
Option_b: By minimizing storage and retrieval time

Option_c: By restricting API access to specific users
Option_d: By preventing all forms of data compression
Correct_option: By minimizing storage and retrieval time

Question 96:

Which of the following is a key advantage of using APIs for cloud storage? (CO2)
Question 96:
Option_a: APIs allow automation and integration with other applications
Option_b: APIs eliminate the need for authentication
Option_c: APIs work only with desktop applications
Option_d: APIs do not support data transfer between cloud platforms
Correct_option: APIs allow automation and integration with other applications

Question 97:

What optimization technique is used to reduce bandwidth usage in cloud storage? (CO3)
Question 97:
Option_a: Data encryption
Option_b: Deduplication
Option_c: Increasing data redundancy
Option_d: API restriction
Correct_option: Deduplication

Question 98:

Which method helps to enhance API security in cloud storage services? (CO4)
Question 98:
Option_a: Using API keys and access tokens
Option_b: Allowing open access to all users
Option_c: Disabling encryption for faster data transfer
Option_d: Storing API requests in plain text
Correct_option: Using API keys and access tokens

Question 99:

What is the primary advantage of using a browser-based cloud storage interface over a desktop application? (CO3)
Question 99:
Option_a: It requires no installation and works on multiple devices
Option_b: It does not require user authentication
Option_c: It eliminates the need for data encryption
Option_d: It prevents file sharing across devices
Correct_option: It requires no installation and works on multiple devices

Question 100:

Which optimization technique ensures efficient file storage and retrieval in cloud environments? (CO1)

Question 100:
Option_a: Delta encoding
Option_b: Increasing file duplication
Option_c: Eliminating data compression
Option_d: Restricting user access
Correct_option: Delta encoding

UNIT III   ANALYSIS OF CLOUD STORAGE DEVICES

Analysis of Threats – Time related aspects – Advanced persistent threats – Client Server encryption - Methodology for Analysis – Selection of products – Scope – Format – CloudMe – CrashPlan – DropBox– Mozy – TeamDrive – UbuntuOne – Whula.

Question 1:
What is a key characteristic of an Advanced Persistent Threat (APT)? (CO3)
Question 1:

Option_a: A short-term attack with immediate damage
Option_b: A targeted, long-term cyber attack with stealthy infiltration
Option_c: A brute force attack on a cloud storage system
Option_d: A denial-of-service (DoS) attack on cloud servers
Correct_option: A targeted, long-term cyber attack with stealthy infiltration

Question 2:
Which type of security threat exploits time-related vulnerabilities in cloud storage? (CO3)
Question 2:

Option_a: Phishing
Option_b: Time-based side-channel attacks
Option_c: SQL Injection
Option_d: Brute force attack
Correct_option: Time-based side-channel attacks

Question 3:
What is the primary concern in time-related cloud security attacks? (CO3)
Question 3:

Option_a: Encryption key storage
Option_b: Data synchronization delays
Option_c: Unauthorized data replication
Option_d: System load balancing
Correct_option: Data synchronization delays

Question 4:
Which of the following is NOT considered an advanced persistent threat (APT) technique? (CO3)
Question 4:

Option_a: Social engineering
Option_b: Data exfiltration

Option_c: Session hijacking
Option_d: File compression
Correct_option: File compression

Question 5:
Which security measure is crucial to mitigate persistent threats in cloud storage? (CO3)
Question 5:

Option_a: Frequent password resets
Option_b: Implementing zero-trust security models
Option_c: Enabling file compression
Option_d: Increasing storage capacity
Correct_option: Implementing zero-trust security models

Question 6:
Which encryption technique ensures data security in cloud client-server communication? (CO3)
Question 6:

Option_a: Symmetric encryption
Option_b: Asymmetric encryption
Option_c: Plaintext storage
Option_d: Stenography
Correct_option: Asymmetric encryption

Question 7:
Client-side encryption in cloud storage helps to: (CO3)
Question 7:

Option_a: Prevent unauthorized access even if the cloud provider is compromised
Option_b: Improve data compression
Option_c: Increase network latency
Option_d: Reduce data redundancy
Correct_option: Prevent unauthorized access even if the cloud provider is compromised

Question 8:
Which is a drawback of client-side encryption in cloud storage? (CO3)
Question 8:

Option_a: Higher risk of data breaches
Option_b: Increased encryption key management complexity
Option_c: Reduced data availability
Option_d: Incompatibility with HTTPS protocols
Correct_option: Increased encryption key management complexity

Question 9:
What is the first step in analyzing cloud storage devices? (CO3)
Question 9:

Option_a: Data extraction
Option_b: Product selection
Option_c: Security auditing
Option_d: Threat modeling
Correct_option: Product selection

Question 10:
Which parameter is crucial in evaluating cloud storage products? (CO3)
Question 10:

Option_a: Color scheme of the user interface
Option_b: Storage location of data
Option_c: Advertisements displayed
Option_d: Number of themes available
Correct_option: Storage location of data

Question 11:
Which cloud storage service offers built-in client-side encryption? (CO3)
Question 11:

Option_a: CloudMe
Option_b: Dropbox
Option_c: TeamDrive
Option_d: Mozy
Correct_option: TeamDrive

Question 12:
Which cloud storage service was discontinued by Ubuntu? (CO3)
Question 12:

Option_a: CloudMe
Option_b: UbuntuOne
Option_c: Mozy
Option_d: Whula
Correct_option: UbuntuOne

Question 13:
Which cloud storage provider is best known for its real-time file synchronization? (CO3)
Question 13:

Option_a: CloudMe
Option_b: CrashPlan

Option_c: Dropbox
Option_d: Mozy
Correct_option: Dropbox

Question 14:
Which cloud service focuses on business-oriented disaster recovery solutions? (CO3)
Question 14:

Option_a: CrashPlan
Option_b: CloudMe
Option_c: UbuntuOne
Option_d: Whula
Correct_option: CrashPlan

Question 15:
Which of the following factors is considered in cloud storage product selection? (CO3)
Question 15:

Option_a: Brand popularity
Option_b: Encryption support
Option_c: Customer service hours
Option_d: File icon appearance
Correct_option: Encryption support

Question 16:
Which cloud storage format ensures maximum portability of stored files? (CO3)
Question 16:

Option_a: Proprietary encrypted format
Option_b: Open-source standard format
Option_c: Read-only format
Option_d: Compressed format only
Correct_option: Open-source standard format

Question 17:
Which type of time-related threat in cloud storage exploits delays in cryptographic operations? (CO3)
Question 17:

Option_a: Timestamp spoofing
Option_b: Time-based side-channel attacks
Option_c: SQL Injection
Option_d: Dictionary attack
Correct_option: Time-based side-channel attacks

Question 18:
Which attack method exploits latency variations in cloud storage authentication mechanisms? (CO3)
Question 18:

Option_a: Brute force attack
Option_b: Side-channel timing attack
Option_c: Data poisoning
Option_d: Phishing
Correct_option: Side-channel timing attack

Question 19:
What is the major risk of time synchronization issues in cloud storage? (CO3)
Question 19:

Option_a: Unauthorized access due to expired security tokens
Option_b: Increased bandwidth consumption
Option_c: Higher storage costs
Option_d: Slower file uploads
Correct_option: Unauthorized access due to expired security tokens

Question 20:
Which authentication method is commonly used to verify cloud storage clients? (CO3)
Question 20:

Option_a: Multi-Factor Authentication (MFA)
Option_b: Static password authentication
Option_c: CAPTCHA
Option_d: Firewall rules
Correct_option: Multi-Factor Authentication (MFA)

Question 21:
Which protocol is used for secure authentication in cloud storage services? (CO3)
Question 21:

Option_a: HTTP
Option_b: OAuth
Option_c: Telnet
Option_d: SNMP
Correct_option: OAuth

Question 22:
Which of the following enhances security in client-server encryption? (CO3)
Question 22:

Option_a: Using short passwords
Option_b: Disabling HTTPS
Option_c: Implementing -to- encryption
Option_d: Storing passwords in plain text
Correct_option: Implementing -to- encryption

Question 23:
What method is used to check data integrity in cloud storage? (CO3)
Question 23:

Option_a: Hashing
Option_b: Data replication
Option_c: Caching
Option_d: Compression
Correct_option: Hashing

Question 24:
Which hashing algorithm is commonly used for file integrity verification? (CO3)
Question 24:

Option_a: SHA-256
Option_b: RSA
Option_c: AES
Option_d: DES
Correct_option: SHA-256

Question 25:
What does a checksum verify in cloud storage? (CO3)
Question 25:

Option_a: File format
Option_b: Data integrity
Option_c: Network latency
Option_d: Server location
Correct_option: Data integrity

Question 26:
Which cloud storage model provides on-demand resources over the internet? (CO3)
Question 26:

Option_a: Public cloud
Option_b: Private cloud
Option_c: Hybrid cloud
Option_d: Community cloud
Correct_option: Public cloud

Question 27:
Which factor most affects network latency in cloud storage? (CO3)

Option_a: Storage device brand
Option_b: Data center location
Option_c: File color settings
Option_d: User interface design
Correct_option: Data center location

Question 28:
Which component improves cloud storage performance? (CO3)

Option_a: Load balancing
Option_b: Manual data entry
Option_c: Disabling security updates
Option_d: Reducing storage space
Correct_option: Load balancing

Question 51:
Which access control model is widely used in cloud storage security? (CO3)

Option_a: Role-Based Access Control (RBAC)
Option_b: Mandatory Access Control (MAC)
Option_c: Discretionary Access Control (DAC)
Option_d: Identity-Based Access Control (IBAC)
Correct_option: Role-Based Access Control (RBAC)

Question 52:
Which policy enforces least privilege in cloud storage? (CO3)

Option_a: Granting full access to all users
Option_b: Restricting access based on roles
Option_c: Using default passwords
Option_d: Removing all encryption
Correct_option: Restricting access based on roles

Question 61:
How does blockchain enhance cloud storage security? (CO3)

Option_a: By encrypting stored data
Option_b: By providing a decentralized ledger for file verification

Option_c: By reducing file sizes
Option_d: By increasing network speed
Correct_option: By providing a decentralized ledger for file verification

Question 62:
Which consensus mechanism is commonly used in blockchain-based cloud storage? (CO3)
Question 62:

Option_a: Proof of Work (PoW)
Option_b: Proof of Concept (PoC)
Option_c: Proof of Execution (PoE)
Option_d: Proof of Identity (PoI)
Correct_option: Proof of Work (PoW)

Question 66:
Which protocol is widely used for secure file transfer in cloud environments? (CO3)
Question 66:

Option_a: FTP
Option_b: SFTP
Option_c: Telnet
Option_d: HTTP
Correct_option: SFTP

Question 67:
What is the main advantage of using SFTP over FTP in cloud storage? (CO3)
Question 67:

Option_a: Faster transfer speeds
Option_b: Enhanced encryption security
Option_c: More user-frily interface
Option_d: Higher compression ratio
Correct_option: Enhanced encryption security

Question 71:
What is a key emerging tr in cloud storage security? (CO3)
Question 71:

Option_a: AI-driven threat detection
Option_b: Manual security audits
Option_c: Reducing encryption complexity
Option_d: Increasing storage costs
Correct_option: AI-driven threat detection

Question 72:
Which AI technique is increasingly used for anomaly detection in cloud storage? (CO3)
Question 72:

Option_a: Neural networks
Option_b: Linear regression
Option_c: Basic statistics
Option_d: Manual rule setting
Correct_option: Neural networks

uestion 73:
What is the primary factor when selecting a cloud storage solution for enterprises? (CO3)
Question 73:

Option_a: Storage capacity and scalability
Option_b: Popularity of the service
Option_c: Presence of advertisements
Option_d: Number of social media integrations
Correct_option: Storage capacity and scalability

Question 74:
Which of the following is a key consideration in selecting a cloud storage product? (CO3)
Question 74:

Option_a: Security and encryption features
Option_b: Ability to play music files
Option_c: Presence of emojis in the interface
Option_d: Number of themes available
Correct_option: Security and encryption features

Question 75:
Which type of encryption is preferred when selecting a cloud storage product? (CO3)
Question 75:

Option_a: -to- encryption
Option_b: Basic password protection
Option_c: No encryption
Option_d: MD5 hashing only
Correct_option: -to- encryption

Question 76:
Which feature is essential for business cloud storage selection? (CO3)
Question 76:

Option_a: Integration with collaboration tools
Option_b: Ability to change background themes
Option_c: Limitation on file uploads
Option_d: Frequent data loss events
Correct_option: Integration with collaboration tools

Question 77:
What is the main advantage of cloud storage for businesses? (CO3)
Question 77:

Option_a: Remote access and collaboration
Option_b: Higher electricity bills
Option_c: Increased manual backups
Option_d: Reduced internet speed
Correct_option: Remote access and collaboration

Question 78:
What is an essential feature for cloud storage used in large enterprises? (CO3)
Question 78:

Option_a: Centralized data management
Option_b: Limited user access
Option_c: No security features
Option_d: Inconsistent uptime
Correct_option: Centralized data management

Question 79:
What type of cloud storage is most suitable for companies handling confidential data? (CO3)
Question 79:

Option_a: Private cloud storage
Option_b: Public cloud storage
Option_c: No cloud storage
Option_d: Social media-based storage
Correct_option: Private cloud storage

Which format is commonly used for storing large datasets in cloud storage? (CO3)
Question 80:

Option_a: CSV
Option_b: JPG
Option_c: MP3
Option_d: GIF
Correct_option: CSV

Question 81:
Which file format is commonly used for storing structured data in cloud storage? (CO3)
Question 81:

Option_a: JSON
Option_b: BMP
Option_c: WAV
Option_d: EXE
Correct_option: JSON

Question 82:
Which cloud storage provider offers client-side encryption for enhanced security? (CO3)
Question 82:

Option_a: CloudMe
Option_b: Google Drive
Option_c: YouTube
Option_d: WhatsApp
Correct_option: CloudMe

Question 83:
What is a key feature of CloudMe? (CO3)
Question 83:

Option_a: Integration with media streaming services
Option_b: Lack of encryption
Option_c: No user authentication
Option_d: No cloud access
Correct_option: Integration with media streaming services

Question 84:
What is a unique feature of CrashPlan cloud storage? (CO3)
Question 84:

Option_a: Continuous data backup
Option_b: Limited file sharing
Option_c: No encryption
Option_d: No customer support
Correct_option: Continuous data backup

Question 85:
Which type of user benefits the most from CrashPlan? (CO3)
Question 85:

Option_a: Enterprise users needing automatic backups
Option_b: Social media influencers

Option_c: Users with no files to store
Option_d: Gamers
Correct_option: Enterprise users needing automatic backups

Question 86:
What is a primary advantage of Dropbox for businesses? (CO3)
Question 86:

Option_a: Seamless file sharing and collaboration
Option_b: Limited user access
Option_c: No security measures
Option_d: High failure rate
Correct_option: Seamless file sharing and collaboration

Question 87:
Which feature makes Dropbox popular for document sharing? (CO3)
Question 87:

Option_a: File synchronization across multiple devices
Option_b: No storage for images
Option_c: Limited access to users
Option_d: Slow upload speed
Correct_option: File synchronization across multiple devices

Question 88:
What is a distinguishing feature of Mozy cloud storage? (CO3)
Question 88:

Option_a: Enterprise-level automated backups
Option_b: Limited storage options
Option_c: No encryption available
Option_d: High failure rate
Correct_option: Enterprise-level automated backups

Question 89:
What security measure does Mozy cloud storage provide? (CO3)
Question 89:

Option_a: 256-bit AES encryption
Option_b: No password protection
Option_c: Unsecured file sharing
Option_d: Manual backup only
Correct_option: 256-bit AES encryption

Question 90:
What makes TeamDrive different from other cloud storage services? (CO3)
Question 90:

Option_a: Team collaboration with -to- encryption
Option_b: Only works offline
Option_c: No security features
Option_d: No user authentication
Correct_option: Team collaboration with -to- encryption

Question 91:
Which type of users benefit most from TeamDrive? (CO3)
Question 91:

Option_a: Remote work teams
Option_b: Casual gamers
Option_c: Social media users
Option_d: Music producers
Correct_option: Remote work teams

Question 92:
What was a key feature of UbuntuOne before it was discontinued? (CO3)
Question 92:

Option_a: Cloud file synchronization for Ubuntu users
Option_b: No Linux support
Option_c: No file encryption
Option_d: No file sharing
Correct_option: Cloud file synchronization for Ubuntu users

Question 93:
What is the main purpose of Whula cloud storage? (CO3)
Question 93:

Option_a: Secure document collaboration
Option_b: Social media integration
Option_c: Video streaming only
Option_d: No file sharing options
Correct_option: Secure document collaboration

Question 94:
Which of the following is a major security threat in cloud storage systems? (CO3)
Question 94:

Option_a: Data breaches
Option_b: Increased bandwidth

Option_c: Faster data retrieval
Option_d: Reduced storage cost
Correct_option: Data breaches

Question 95:
What type of cyber attack aims to disrupt cloud storage availability? (CO3)
Question 95:

Option_a: DDoS (Distributed Denial of Service)
Option_b: Data Compression Attack
Option_c: Cloud Storage Optimization
Option_d: Content Delivery Acceleration
Correct_option: DDoS (Distributed Denial of Service)

Question 96:
Which of the following is NOT a security threat in cloud storage? (CO3)
Question 96:

Option_a: SQL injection
Option_b: Malware injection
Option_c: High-speed data transfer
Option_d: Unauthorized access
Correct_option: High-speed data transfer

Question 97:
Why is real-time monitoring important for cloud storage security? (CO3)
Question 97:

Option_a: To detect unauthorized access promptly
Option_b: To slow down data transfer
Option_c: To allow delayed responses
Option_d: To increase storage costs
Correct_option: To detect unauthorized access promptly

Question 98:
What does "latency" refer to in cloud storage performance? (CO3)
Question 98:

Option_a: Delay in data retrieval and transmission
Option_b: Increased storage security
Option_c: Additional storage capacity
Option_d: Lower data redundancy
Correct_option: Delay in data retrieval and transmission

Question 99:
What is the primary characteristic of an Advanced Persistent Threat (APT)? (CO3)
Question 99:

Option_a: Long-term, targeted cyber attack
Option_b: Temporary, random attacks
Option_c: Short-duration hacks
Option_d: One-time phishing attempt
Correct_option: Long-term, targeted cyber attack

Question 100:
Which method is commonly used by APT attackers to infiltrate cloud storage? (CO3)
Question 100:

Option_a: Spear phishing
Option_b: Manual data transfer
Option_c: Secure file sharing
Option_d: Cloud storage pricing plans
Correct_option: Spear phishing

UNIT IV   CLOUD SECURITY

Data security and storage – Identity and Access Management – Security management in cloud – Security Management Standards – Security Management in the Cloud – Availability Management – SaaS Availability Management – PaaS Availability Management – IaaS Availability Management – Access control – Security vulnerability, patch and configuration management.

Question 1:

Which of the following is a primary goal of data security?

Question 1:

Option_a: Data availability

Option_b: Data integrity

Option_c: Data confidentiality

Option_d: All of the above

Correct_option: All of the above

Question 2:

What is the process of converting data into unreadable format called?

Question 2 :

Option_a: Compression

Option_b: Encryption

Option_c: Hashing

Option_d: Tokenization

Correct_option: Encryption

Question 3:

Which encryption method uses the same key for encryption and decryption?

Question 3 :

Option_a: Asymmetric encryption

Option_b: Symmetric encryption

Option_c: Hybrid encryption

Option_d: Hashing

Correct_option: Symmetric encryption

Question 4:

Which of the following is a common cloud storage security risk?

Question 4 :

Option_a: Data loss

Option_b: Unauthorized access

Option_c: Data breach

Option_d: All of the above

Correct_option:: All of the above

Question 5 :

Which technique is used to ensure data integrity?

Question 5 :

Option_a: Digital signatures

Option_b: Data masking

Option_c: Compression

Option_d: Caching

Correct_option:: Digital signatures

Question 6:

What does RAID stand for in storage security?

Question 6 :

Option_a: Random Access Internet Device

Option_b: Redundant Array of Indepent Disks

Option_c: Reliable Access and Integrity Data

Option_d: None of the above

Correct_option:: Redundant Array of Indepent Disks

Question 7 :

In cloud storage, what is the best method to ensure data availability?

Question 7 :

Option_a: Data encryption

Option_b: Multi-factor authentication

Option_c: Data replication

Option_d: VPN usage

Correct_option:: Data replication

Question 8 :

What is a major concern when storing sensitive data in a cloud environment?

Question 8 :

Option_a: Cost

Option_b: Latency

Option_c: Vor lock-in

Option_d: Compliance with regulations

Correct_option:: Compliance with regulations

Question 9 :

Which type of backup strategy takes the longest time to restore?

Question 9 :

Option_a: Full backup

Option_b: Incremental backup

Option_c: Differential backup

Option_d: Snapshot backup

Correct_option:: Incremental backup

Question 10:

What is the main purpose of a Data Loss Prevention (DLP) solution?

Question 10 :

Option_a: Prevent unauthorized access

Option_b: Encrypt data at rest

Option_c: Detect and prevent data breaches

Option_d: Increase network speed

Correct_option:: Detect and prevent data breaches

Question 11:

What does IAM stand for in security?

Question 11 :

Option_a: Identity and Access Management

Option_b: Internet Authentication Module

Option_c: Information and Access Management

Option_d: Integrated Account Management

Correct_option:: Identity and Access Management

Question 12 :

What is the principle of least privilege in IAM?

Question 12 :

Option_a: Giving users all possible permissions

Option_b: Providing users with only the necessary access

Option_c: Assigning roles based on department

Option_d: Using one administrator for all tasks

Correct_option:: Providing users with only the necessary access

Question 13 :

What is Multi-Factor Authentication ?

Question 13 :

Option_a: Logging in with only a username

Option_b: Using two or more authentication factors

Option_c: Verifying identity once per session

Option_d: Encrypting passwords

Correct_option:: Using two or more authentication factors

Question 14 :

Which of the following is NOT an authentication factor?

Question 14 :

Option_a: Something you know

Option_b: Something you have

Option_c: Something you write

Option_d: Something you are

Correct_option:: Something you write

Question 15 :

What is Single Sign-On (SSO)?

Question 15 :

Option_a: A type of multi-factor authentication

Option_b: A password management system

Option_c: A method to access multiple applications with one login

Option_d: An encryption algorithm

Correct_option:: A method to access multiple applications with one login

Question 16 :

What is a major challenge in cloud security management?

Question 16 :
Option_a: Cost of storage
Option_b: Lack of encryption
Option_c: Shared responsibility model
Option_d: Limited cloud service providers
Correct_option:: Shared responsibility model

Question 17:

What is cloud workload security?

Question 17:
Option_a: Ensuring servers are running at full capacity
Option_b: Protecting applications and workloads in the cloud
Option_c: Managing user access permissions
Option_d: Encrypting data in transit
Correct_option:: Protecting applications and workloads in the cloud

Question 18 :

Which security standard is widely used for information security management?

Question 18 :
Option_a: ISO 27001
Option_b: PCI-DSS
Option_c: HIPAA
Option_d: GDPR
Correct_option:: ISO 27001

Question 19:

What does GDPR stand for?

Question 19 :

Option_a: General Data Protection Regulation

Option_b: Global Data Privacy Rules

Option_c: Government Data Protection Rights

Option_d: General Digital Privacy Rules

Correct_option:: General Data Protection Regulation

Question 20 :

Which standard applies to credit card transaction security?

Question 20 :

Option_a: ISO 9001

Option_b: PCI-DSS

Option_c: NIST 800-53

Option_d: SOC 2

Correct_option:: PCI-DSS

Question 21 :

What is a major concern in cloud security?

Question 21 :

Option_a: Latency issues

Option_b: Unauthorized access

Option_c: High-speed internet requirement

Option_d: Lack of scalability

Correct_option:: Unauthorized access

Question 22 :

What is the role of Cloud Access Security Brokers ?

Question 22:

Option_a: Encrypt cloud data

Option_b: Provide governance and security monitoring

Option_c: Manage cloud storage costs

Option_d: Optimize cloud performance

Correct_option:: Provide governance and security monitoring

Question 23 :

What does "Zero Trust" mean in cloud security?

Question 23 :

Option_a: Trusting users once authenticated

Option_b: Always verifying every access request

Option_c: Allowing open access to data

Option_d: Encrypting data without authentication

Correct_option:: Always verifying every access request

Question 24:

What does IAM help with in cloud security?

Question 24 :

Option_a: Encryption of data

Option_b: Managing user identities and access rights

Option_c: Enhancing cloud performance

Option_d: Reducing cloud costs

Correct_option:: Managing user identities and access rights

Question 25 :

What is the purpose of Security Information and Event Management (SIEM) in cloud security?

Question 25 :

Option_a: Data storage

Option_b: Incident detection and response

Option_c: Cloud migration

Option_d: User authentication

Correct_option:: Incident detection and response

Question 26 :

Which security measure ensures data remains unchanged and unaltered?

Question 26 :

Option_a: Data encryption

Option_b: Data masking

Option_c: Data integrity

Option_d: Data redundancy

Correct_option:: Data integrity

Question 27 :

What is the purpose of tokenization in data security?

Question 27 :

Option_a: Encrypt data using a key

Option_b: Replace sensitive data with a non-sensitive equivalent

Option_c: Compress large files

Option_d: Store data in different locations

Correct_option:: Replace sensitive data with a non-sensitive equivalent

Question 28 :

What is data at rest?

Question 28 :

Option_a: Data being transmitted over a network

Option_b: Data being processed in memory

Option_c: Data stored on a physical or virtual storage medium

Option_d: Data deleted from a system

Correct_option:: Data stored on a physical or virtual storage medium

Question 29 :

Which of the following is a method to protect data in transit?

Question 29 :
Option_a: Firewall

Option_b: TLS encryption

Option_c: RAID storage

Option_d: Data compression

Correct_option:: TLS encryption

Question 30 :

A honeypot in cybersecurity is used for:

Question 30 :
Option_a: Encrypting sensitive data

Option_b: Attracting and monitoring attackers

Option_c: Protecting user credentials

Option_d: Cloud backup management

Correct_option:: Attracting and monitoring attackers

Question 31:

Which IAM model assigns permissions to roles rather than individuals?

Question 31 :
Option_a: Attribute-Based Access Control (ABAOption_c:

Option_b: Role-Based Access Control (RBAOption_c:

Option_c: Mandatory Access Control (MAOption_c:

Option_d: Discretionary Access Control (DAOption_c:

Correct_option:: Role-Based Access Control (RBAOption_c:

Question 32 :

What is Just-In-Time (JIT) Access in IAM?

Question 32 :

Option_a: A method to grant access only when required for a short time

Option_b: A multi-factor authentication technique

Option_c: A method to encrypt stored passwords

Option_d: A process of automatic account recovery

Correct_option:: A method to grant access only when required for a short time

Question 33 :

What is the purpose of identity federation in IAM?

Question 33 :

Option_a: Storing user passwords securely

Option_b: Allowing authentication across multiple systems without multiple logins

Option_c: Blocking unauthorized users

Option_d: Encrypting user credentials

Correct_option:: Allowing authentication across multiple systems without multiple logins

Question 34 :

Which protocol is commonly used for Single Sign-On (SSO)?

Question 34 :

Option_a: SMTP

Option_b: SAML

Option_c: FTP

Option_d: RDP

Correct_option:: SAML

Question 35 :

What does Privileged Access Management (PAM) focus on?

Question 35 :
Option_a: Managing access for all employees
Option_b: Controlling and securing access for high-risk accounts
Option_c: Enforcing password changes regularly
Option_d: Managing network firewalls
Correct_option:: Controlling and securing access for high-risk accounts

Question 36 :

What is a Cloud Security Posture Management (CSPM) solution used for?

Question 36 :
Option_a: Encrypting cloud data
Option_b: Identifying and remediating cloud security misconfigurations
Option_c: Preventing denial-of-service attacks
Option_d: Managing cloud subscription costs
Correct_option:: Identifying and remediating cloud security misconfigurations

Question 37 :

Which cloud security model ensures that cloud customers and providers share security responsibilities?

Question 37 :
Option_a: Zero Trust Model
Option_b: Shared Responsibility Model
Option_c: Single Security Model
Option_d: Elastic Security Framework
Correct_option:: Shared Responsibility Model

Question 38 :

Which cloud security issue can arise due to improper API management?

Question 38 :

Option_a: Malware injection

Option_b: Unauthorized access

Option_c: Data redundancy

Option_d: Storage fragmentation

Correct_option:: Unauthorized access

Question 39 :

What is the best practice for securing cloud workloads?

Question 39 :

Option_a: Using a single security key for all services

Option_b: Implementing network segmentation and monitoring

Option_c: Avoiding multi-factor authentication

Option_d: Storing all credentials in plaintext

Correct_option:: Implementing network segmentation and monitoring

Question 40 :

What is cloud sandboxing used for?

Question 40 :

Option_a: Running untrusted applications in an isolated environment

Option_b: Optimizing cloud storage performance

Option_c: Encrypting network traffic

Option_d: Improving cloud billing efficiency

Correct_option:: Running untrusted applications in an isolated environment

Question 41 :

Which standard provides security guidelines for IoT devices?

Question 41 :

Option_a: ISO 27701

Option_b: NIST 800-183

Option_c: HIPAA

Option_d: PCI DSS

Correct_option:: NIST 800-183

Question 42 :

What is the purpose of SOC 2 compliance?

Question 42 :

Option_a: Ensuring physical security of data centers

Option_b: Evaluating security controls in cloud service providers

Option_c: Certifying software developers

Option_d: Managing global internet access

Correct_option:: Evaluating security controls in cloud service providers

Question 43:

Which cybersecurity framework is widely used for risk management in the U.S.?

Question 43:

Option_a: ISO 9001

Option_b: NIST Cybersecurity Framework

Option_c: ITIL

Option_d: GDPR

Correct_option:: Option_b: NIST Cybersecurity Framework

Question 44 :

What is the HIPAA regulation focused on?

Question 44 :

Option_a: Financial transaction security

Option_b: Protecting healthcare data and patient information

Option_c: Cloud infrastructure security

Option_d: Mobile device encryption

Correct_option:: Option_b: Protecting healthcare data and patient information

Question 45 :

Which standard outlines best practices for information security governance?

Question 45 :

Option_a: COBIT

Option_b: GDPR

Option_c: ITIL

Option_d: X.509

Correct_option:: COBIT

Question 46 :

Which cloud security risk involves attackers injecting malicious scripts into cloud-based applications?

Question 46 :

Option_a: Man-in-the-Middle Attack

Option_b: SQL Injection

Option_c: Cross-Site Scripting (XSS)

Option_d: DNS Spoofing

Correct_option:: Cross-Site Scripting (XSS)

Question 47 :

Which of the following helps prevent data exfiltration in the cloud?

Question 47 :

Option_a: Security Information and Event Management (SIEM)

Option_b: API Rate Limiting

Option_c: Data Loss Prevention (DLP)

Option_d: Content Delivery Networks (CDN)

Correct_option:: Data Loss Prevention (DLP)

Question 48 :

What does a cloud-native firewall do?

Question 48 :

Option_a: Blocks all incoming connections

Option_b: Monitors and controls cloud traffic based on security policies

Option_c: Increases cloud storage capacity

Option_d: Enhances multi-factor authentication

Correct_option:: Monitors and controls cloud traffic based on security policies

Question 49 :

What is a common mitigation strategy for Distributed Denial of Service (DDoS) attacks in the cloud?

Question 49 :

Option_a: Using a VPN

Option_b: Implementing rate-limiting and traffic filtering

Option_c: Disabling encryption

Option_d: Reducing server capacity

Correct_option:: Implementing rate-limiting and traffic filtering

Question 50 :

Which of the following is an advantage of cloud-based Security-as-a-Service (SECaaS)?

Question 50 :

Option_a: Reduces security management overhead

Option_b: Eliminates the need for user authentication

Option_c: Increases latency

Option_d: Weakens encryption methods

Correct_option:: Reduces security management overhead

Question51:
Which availability metric is commonly used to measure the total percentage of uptime in cloud services? (CO4)
Question51:
Option_a: Recovery Time Objective (RTO)
Option_b: Mean Time Between Failures (MTBF)
Option_c: Five Nines Availability
Option_d: Service Level Agreement (SLA)
correct_option: Five Nines Availability

Question52:
In SaaS availability management, what technique is often employed to prevent service disruption due to high traffic spikes? (CO4)
Question52:
Option_a: Rate Limiting
Option_b: Containerization
Option_c: Hardware Redundancy
Option_d: Serverless Computing
correct_option: Rate Limiting

Question53:
Which cloud service model provides the highest level of customer control over availability management? (CO4)
Question53:
Option_a: SaaS
Option_b: PaaS
Option_c: IaaS
Option_d: FaaS
correct_option: IaaS

Question54:
Which availability management practice is most effective in preventing downtime in a multi-region cloud deployment? (CO4)
Question54:
Option_a: Horizontal Scaling
Option_b: Data Encryption
Option_c: Edge Computing
Option_d: Load Balancing
correct_option: Load Balancing

Question55:
What is the primary purpose of failover clustering in cloud environments? (CO4)
Question55:
Option_a: To distribute workloads evenly across servers
Option_b: To automatically switch to a standby system in case of failure
Option_c: To improve application response time

Option_d: To provide a shared security framework
correct_option: To automatically switch to a standby system in case of failure

Question56:
Which access control model restricts user permissions based on organizational roles? (CO4)
Question56:
Option_a: Discretionary Access Control (DAC)
Option_b: Mandatory Access Control (MAC)
Option_c: Role-Based Access Control (RBAC)
Option_d: Attribute-Based Access Control (ABAC)
correct_option: Role-Based Access Control (RBAC)

Question57:
Which access control technique dynamically adjusts permissions based on user behavior patterns? (CO4)
Question57:
Option_a: Static Permissions
Option_b: Multi-Factor Authentication
Option_c: Adaptive Access Control
Option_d: Time-Based Access Control
correct_option: Adaptive Access Control

Question58:
What is the main goal of security patch management in cloud environments? (CO4)
Question58:
Option_a: To introduce new software features
Option_b: To fix known vulnerabilities and enhance security
Option_c: To improve user interface design
Option_d: To update software licenses
correct_option: To fix known vulnerabilities and enhance security

Question59:
Which of the following represents a critical risk of improper patch management in a cloud environment? (CO4)
Question59:
Option_a: Increased system uptime
Option_b: Unpatched security vulnerabilities
Option_c: Improved application speed
Option_d: Reduced bandwidth consumption
correct_option: Unpatched security vulnerabilities

Question60:
In configuration management, what is the primary purpose of Infrastructure as Code (IaC)? (CO4)
Question60:

Option_a: Automating cloud resource provisioning and management
Option_b: Enhancing graphical user interfaces
Option_c: Increasing manual control over configurations
Option_d: Reducing storage requirements
correct_option: Automating cloud resource provisioning and management

Question61:
Which cloud computing model provides the highest level of abstraction for users? (CO4)
Question61:
Option_a: IaaS
Option_b: PaaS
Option_c: SaaS
Option_d: On-premise
correct_option: SaaS

Question62:
What is the primary function of a Web Application Firewall (WAF) in a cloud
environment? (CO4)
Question62:
Option_a: Preventing distributed denial-of-service attacks
Option_b: Encrypting network traffic
Option_c: Managing cloud workloads
Option_d: Optimizing storage solutions
correct_option: Preventing distributed denial-of-service attacks

Question63:
What is the primary advantage of using containerization in cloud environments? (CO4)
Question63:
Option_a: Improved hardware utilization
Option_b: Easier application scaling
Option_c: Increased latency
Option_d: Limited portability
correct_option: Easier application scaling

Question64:
Which of the following is a key benefit of using zero trust security in access control?
(CO4)
Question64:
Option_a: Reduced authentication requirements
Option_b: Automatic access without verification
Option_c: Continuous authentication and verification
Option_d: Elimination of encryption
correct_option: Continuous authentication and verification

Question65:

Which metric is used to measure the average time required to repair a failed system component? (CO4)
Question65:
Option_a: Recovery Time Objective (RTO)
Option_b: Mean Time to Repair (MTTR)
Option_c: Mean Time Between Failures (MTBF)
Option_d: Failure Rate Analysis
correct_option: Mean Time to Repair (MTTR)

Question66:
Which cloud deployment model offers the best availability for disaster recovery? (CO4)
Question66:
Option_a: Private Cloud
Option_b: Public Cloud
Option_c: Hybrid Cloud
Option_d: Community Cloud
correct_option: Hybrid Cloud

Question67:
Which approach ensures high availability by running multiple redundant instances of an application? (CO4)
Question67:
Option_a: Vertical Scaling
Option_b: Active-Active Redundancy
Option_c: Cold Standby
Option_d: Monolithic Deployment
correct_option: Active-Active Redundancy

Question68:
What is the key advantage of using a content delivery network (CDN) for availability management? (CO4)
Question68:
Option_a: Reduces data storage costs
Option_b: Enhances network latency and performance
Option_c: Eliminates the need for cloud security
Option_d: Increases CPU utilization
correct_option: Enhances network latency and performance

Question69:
Which backup strategy minimizes downtime by instantly switching to a preconfigured backup system? (CO4)
Question69:
Option_a: Full Backup
Option_b: Differential Backup
Option_c: Hot Standby
Option_d: Incremental Backup

correct_option: Hot Standby

Question70:
What is the main function of automated failover in cloud infrastructure? (CO4)
Question70:
Option_a: To manually re failed servers
Option_b: To distribute load evenly across all servers
Option_c: To automatically switch to a standby system in case of failure
Option_d: To reduce storage costs
correct_option: To automatically switch to a standby system in case of failure

Question71:
Which security mechanism ensures that only authorized users can access cloud services? (CO4)
Question71:
Option_a: Encryption
Option_b: Access Control
Option_c: Data Masking
Option_d: Hashing
correct_option: Access Control

Question72:
What is the primary benefit of implementing multi-factor authentication (MFA) in cloud access control? (CO4)
Question72:
Option_a: Reduces the need for strong passwords
Option_b: Provides an additional layer of security
Option_c: Eliminates phishing attacks completely
Option_d: Decreases login time
correct_option: Provides an additional layer of security

Question73:
Which security vulnerability allows attackers to inject malicious SQL queries? (CO4)
Question73:
Option_a: Cross-Site Scripting (XSS)
Option_b: SQL Injection
Option_c: Man-in-the-Middle (MITM) Attack
Option_d: Buffer Overflow
correct_option: SQL Injection

Question74:
Which of the following is a key purpose of cloud configuration management? (CO4)
Question74:
Option_a: Automating software development
Option_b: Enforcing security policies and compliance
Option_c: Reducing network latency

Option_d: Enhancing hardware performance
correct_option: Enforcing security policies and compliance

Question75:
What is the main objective of a vulnerability management program in cloud security?
(CO4)
Question75:
Option_a: To remove outdated software
Option_b: To identify, assess, and mitigate security weaknesses
Option_c: To increase network bandwidth
Option_d: To reduce storage costs
correct_option: To identify, assess, and mitigate security weaknesses

Question76:
Which availability management strategy focuses on eliminating single points of failure?
(CO4)
Question76:
Option_a: Serverless Computing
Option_b: High Availability Architecture
Option_c: Data Encryption
Option_d: Cloud Bursting
correct_option: High Availability Architecture

Question77:
Which process is responsible for applying security updates and patches to cloud systems?
(CO4)
Question77:
Option_a: Incident Response
Option_b: Patch Management
Option_c: Cloud Backup
Option_d: Network Monitoring
correct_option: Patch Management

Question78:
How does encryption contribute to cloud security? (CO4)
Question78:
Option_a: By improving system performance
Option_b: By protecting data confidentiality and integrity
Option_c: By reducing power consumption
Option_d: By increasing storage capacity
correct_option: By protecting data confidentiality and integrity

Question79:
Which cloud service model requires the customer to manage and secure the operating
system? (CO4)
Question79:

Option_a: SaaS
Option_b: PaaS
Option_c: IaaS
Option_d: FaaS
correct_option: IaaS

Question80:
Which access control model grants permissions based on attributes rather than roles? (CO4)
Question80:
Option_a: Discretionary Access Control (DAC)
Option_b: Role-Based Access Control (RBAC)
Option_c: Mandatory Access Control (MAC)
Option_d: Attribute-Based Access Control (ABAC)
correct_option: Attribute-Based Access Control (ABAC)

Question81:
Which key security measure helps prevent unauthorized data access in a cloud environment? (CO4)
Question81:
Option_a: Load Balancing
Option_b: Data Encryption
Option_c: Auto-scaling
Option_d: Caching
correct_option: Data Encryption

Question82:
What is the primary function of an Intrusion Detection System (IDS) in cloud security? (CO4)
Question82:
Option_a: Prevent unauthorized access
Option_b: Detect and alert on suspicious activities
Option_c: Improve system performance
Option_d: Reduce storage costs
correct_option: Detect and alert on suspicious activities

Question83:
Which of the following best describes the principle of least privilege in access control? (CO4)
Question83:
Option_a: Users are granted only the permissions necessary to perform their job functions
Option_b: All users have full access to all resources
Option_c: Permissions are assigned based on seniority
Option_d: Users can access resources without authentication
correct_option: Users are granted only the permissions necessary to perform their job functions

Question84:
Which type of cloud security testing helps identify vulnerabilities before deployment? (CO4)
Question84:
Option_a: Penetration Testing
Option_b: Patch Management
Option_c: Log Monitoring
Option_d: Data Masking
correct_option: Penetration Testing

Question85:
What is the main advantage of using automated patch management in cloud security? (CO4)
Question85:
Option_a: Reduces the need for authentication
Option_b: Ensures timely updates and minimizes vulnerabilities
Option_c: Eliminates the need for encryption
Option_d: Increases manual oversight
correct_option: Ensures timely updates and minimizes vulnerabilities

Question86:
Which cloud security measure protects against distributed denial-of-service (DDoS) attacks? (CO4)
Question86:
Option_a: Firewalls
Option_b: DDoS Protection Services
Option_c: Load Balancing
Option_d: Intrusion Detection Systems
correct_option: DDoS Protection Services

Question87:
Which strategy ensures continuous service availability during a system failure? (CO4)
Question87:
Option_a: Cold Standby
Option_b: Disaster Recovery Plan
Option_c: Manual Failover
Option_d: Static IP Addressing
correct_option: Disaster Recovery Plan

Question88:
Which cloud-based security control monitors and analyzes network traffic for threats? (CO4)
Question88:
Option_a: Security Information and Event Management (SIEM)
Option_b: Cloud Backup

Option_c: Multi-Factor Authentication
Option_d: Patch Management
correct_option: Security Information and Event Management (SIEM)

Question89:
Which factor is essential for ensuring high availability in cloud-based applications?
(CO4)
Question89:
Option_a: Redundant Infrastructure
Option_b: Manual Scaling
Option_c: Limited Network Access
Option_d: Local Storage
correct_option: Redundant Infrastructure

Question90:
Which security model dynamically adjusts access based on user risk assessment? (CO4)
Question90:
Option_a: Role-Based Access Control (RBAC)
Option_b: Mandatory Access Control (MAC)
Option_c: Adaptive Access Control
Option_d: Discretionary Access Control (DAC)
correct_option: Adaptive Access Control

Question91:
Which cloud security measure ensures secure authentication and authorization for API
access? (CO4)
Question91:
Option_a: API Gateway
Option_b: Data Masking
Option_c: Content Delivery Network (CDN)
Option_d: Cloud Backup
correct_option: API Gateway

Question92:
What is the primary objective of continuous monitoring in cloud security? (CO4)
Question92:
Option_a: Identify and mitigate security threats in real-time
Option_b: Reduce hardware costs
Option_c: Increase software licensing fees
Option_d: Improve graphical user interfaces
correct_option: Identify and mitigate security threats in real-time

Question93:
Which type of backup strategy allows for the fastest data recovery in case of failure?
(CO4)
Question93:

Option_a: Incremental Backup
Option_b: Differential Backup
Option_c: Full Backup
Option_d: Cloud Archiving
correct_option: Full Backup

Question94:
Which access control model is most commonly used in enterprises to enforce security policies? (CO4)
Question94:
Option_a: Role-Based Access Control (RBAC)
Option_b: Discretionary Access Control (DAC)
Option_c: Mandatory Access Control (MAC)
Option_d: Attribute-Based Access Control (ABAC)
correct_option: Role-Based Access Control (RBAC)

Question95:
Which cloud security practice ensures that sensitive data remains unreadable to unauthorized users? (CO4)
Question95:
Option_a: Firewall Configuration
Option_b: Data Encryption
Option_c: Patch Management
Option_d: Network Segmentation
correct_option: Data Encryption

Question96:
Which cloud availability strategy ensures that traffic is distributed evenly across multiple servers? (CO4)
Question96:
Option_a: Load Balancing
Option_b: Cold Standby
Option_c: Manual Scaling
Option_d: Cloud Bursting
correct_option: Load Balancing

Question97:
What is the key advantage of using Security-as-a-Service (SECaaS) in cloud environments? (CO4)
Question97:
Option_a: Reduces the need for cybersecurity professionals
Option_b: Provides scalable and on-demand security solutions
Option_c: Eliminates the need for compliance audits
Option_d: Decreases network latency
correct_option: Provides scalable and on-demand security solutions

Question98:
Which cloud security vulnerability exploits weak authentication mechanisms to gain unauthorized access? (CO4)
Question98:
Option_a: Phishing Attack
Option_b: Credential Stuffing
Option_c: SQL Injection
Option_d: Denial-of-Service Attack
correct_option: Credential Stuffing

Question99:
What is the primary function of a Cloud Access Security Broker (CASB)? (CO4)
Question99:
Option_a: Monitor and enforce security policies across cloud services
Option_b: Optimize database performance
Option_c: Reduce storage costs
Option_d: Improve server cooling efficiency
correct_option: Monitor and enforce security policies across cloud services

Question100:
Which cloud deployment model provides exclusive cloud infrastructure for a single organization? (CO4)
Question100:
Option_a: Public Cloud
Option_b: Private Cloud
Option_c: Hybrid Cloud
Option_d: Community Cloud
correct_option: Private Cloud

UNIT V   ENCRYPTION   METHODS   AND   CLOUD   STORAGE SERVICE SELECTION

Local Encryption Methods – Approaches enhancing security – Approaches not enhancing security – Selecting a cloud storage drive – Factors to consider.

Question 1:
What is the primary purpose of local encryption? (CO5)

Question 1:

Option_a: To secure data stored on local devices

Option_b: To increase processing speed

Option_c: To improve internet connectivity

Option_d: To replace cloud storage

Correct_option: To secure data stored on local devices

Question 2:
Which encryption method is commonly used for securing files on local storage? (CO5)

Question 2:

Option_a: AES

Option_b: MP3 encoding

Option_c: JPEG compression

Option_d: MPEG-4

Correct_option: AES

Question 3:

Which key length is considered secure for AES encryption? (CO5)

Question 3:

Option_a: 64-bit

Option_b: 128-bit

Option_c: 256-bit

Option_d: 512-bit

Correct_option: 256-bit

Question 4:
What is a major advantage of local encryption over cloud encryption? (CO5)

Question 4:

Option_a: Faster internet speed

Option_b: Full control over encryption keys

Option_c: No need for software updates

Option_d: Unlimited storage capacity

Correct_option: Full control over encryption keys

Question 5:

Which encryption algorithm is considered obsolete due to security vulnerabilities? (CO5)

Question 5:

Option_a: AES

Option_b: RSA

Option_c: DES

Option_d: SHA-256

Correct_option: DES

Question 6:

What is the role of a passphrase in local encryption? (CO5)

Question 6:

Option_a: To generate an encryption key

Option_b: To increase processing power

Option_c: To optimize storage space

Option_d: To replace antivirus software

Correct_option: To generate an encryption key

Question 7:

Which of the following enhances security in local encryption? (CO5)

Question 7:

Option_a: Using longer encryption keys

Option_b: Disabling encryption

Option_c: Sharing encryption keys publicly

Option_d: Using simple passwords

Correct_option: Using longer encryption keys

Question 8:

Which approach can further strengthen local encryption security? (CO5)

Question 8:

Option_a: Multi-factor authentication

Option_b: Disabling firewalls

Option_c: Using shorter passwords

Option_d: Avoiding software updates

Correct_option: Multi-factor authentication

Question 9:

Which tool is commonly used for local file encryption? (CO5)

Question 9:

Option_a: BitLocker

Option_b: Notepad

Option_c: Excel

Option_d: Paint

Correct_option: BitLocker

Question 10:

Which of the following encryption types ensures that only the ser and receiver can decrypt the message? (CO5)

Question 10:

Option_a: Symmetric encryption

Option_b: Asymmetric encryption

Option_c: Hashing

Option_d: Steganography

Correct_option: Asymmetric encryption

Question 11:

What is the primary purpose of local encryption? (CO5)

Question 11:

Option_a: To secure data stored on local devices

Option_b: To increase processing speed

Option_c: To improve internet connectivity

Option_d: To replace cloud storage

Correct_option: To secure data stored on local devices

Question 12:

Which encryption method is commonly used for securing files on local storage? (CO5)

Question 12:

Option_a: AES

Option_b: MP3 encoding

Option_c: JPEG compression

Option_d: MPEG-4

Correct_option: AES

Question 13:

Which key length is considered secure for AES encryption? (CO5)

Question 13:

Option_a: 64-bit

Option_b: 128-bit

Option_c: 256-bit

Option_d: 512-bit

Correct_option: 256-bit

Question 14:

What is a major advantage of local encryption over cloud encryption? (CO5)

Question 14:

Option_a: Faster internet speed

Option_b: Full control over encryption keys

Option_c: No need for software updates

Option_d: Unlimited storage capacity

Correct_option: Full control over encryption keys

Question 15:

Which encryption algorithm is considered obsolete due to security vulnerabilities? (CO5)

Question 15:

Option_a: AES

Option_b: RSA

Option_c: DES

Option_d: SHA-256

Correct_option: DES

Question 16:

What is the role of a passphrase in local encryption? (CO5)

Question 16:

Option_a: To generate an encryption key

Option_b: To increase processing power

Option_c: To optimize storage space

Option_d: To replace antivirus software

Correct_option: To generate an encryption key

Question 17:
Which of the following enhances security in local encryption? (CO5)

Question 17:

Option_a: Using longer encryption keys

Option_b: Disabling encryption

Option_c: Sharing encryption keys publicly

Option_d: Using simple passwords

Correct_option: Using longer encryption keys

Question 18:

Which approach can further strengthen local encryption security? (CO5)

Question 18:

Option_a: Multi-factor authentication

Option_b: Disabling firewalls

Option_c: Using shorter passwords

Option_d: Avoiding software updates

Correct_option: Multi-factor authentication

Question 19:

Which tool is commonly used for local file encryption? (CO5)

Question 19:

Option_a: BitLocker

Option_b: Notepad

Option_c: Excel

Option_d: Paint

Correct_option: BitLocker

Question 20:
Which of the following encryption types ensures that only the ser and receiver can decrypt the message? (CO5)

Question 20:

Option_a: Symmetric encryption

Option_b: Asymmetric encryption

Option_c: Hashing

Option_d: Steganography

Correct_option: Asymmetric encryption

Question 21:

What is the primary purpose of local encryption? (CO5)

Question 21:

Option_a: To secure data stored on local devices

Option_b: To increase processing speed

Option_c: To improve internet connectivity

Option_d: To replace cloud storage

Correct_option: To secure data stored on local devices

Question 22:

Which encryption method is commonly used for securing files on local storage? (CO5)

Question 22:

Option_a: AES

Option_b: MP3 encoding

Option_c: JPEG compression

Option_d: MPEG-4

Correct_option: AES

Question 23:
Which key length is considered secure for AES encryption? (CO5)

Question 23:

Option_a: 64-bit

Option_b: 128-bit

Option_c: 256-bit

Option_d: 512-bit

Correct_option: 256-bit

Question 24:
What is a major advantage of local encryption over cloud encryption? (CO5)

Question 24:

Option_a: Faster internet speed

Option_b: Full control over encryption keys

Option_c: No need for software updates

Option_d: Unlimited storage capacity

Correct_option: Full control over encryption keys

Question 25:

Which encryption algorithm is considered obsolete due to security vulnerabilities? (CO5)

Question 25:

Option_a: AES

Option_b: RSA

Option_c: DES

Option_d: SHA-256

Correct_option: DES

Question 26:

What is the role of a passphrase in local encryption? (CO5)

Question 26:

Option_a: To generate an encryption key

Option_b: To increase processing power

Option_c: To optimize storage space

Option_d: To replace antivirus software

Correct_option: To generate an encryption key

Question 27:

Which of the following enhances security in local encryption? (CO5)

Question 27:

Option_a: Using longer encryption keys

Option_b: Disabling encryption

Option_c: Sharing encryption keys publicly

Option_d: Using simple passwords

Correct_option: Using longer encryption keys

Question 28:

Which approach can further strengthen local encryption security? (CO5)

Question 28:

Option_a: Multi-factor authentication

Option_b: Disabling firewalls

Option_c: Using shorter passwords

Option_d: Avoiding software updates

Correct_option: Multi-factor authentication

Question 29:

Which tool is commonly used for local file encryption? (CO5)

Question 29:

Option_a: BitLocker

Option_b: Notepad

Option_c: Excel

Option_d: Paint

Correct_option: BitLocker

Question 30:

Which of the following encryption types ensures that only the ser and receiver can decrypt the message? (CO5)

Question 30:

Option_a: Symmetric encryption

Option_b: Asymmetric encryption

Option_c: Hashing

Option_d: Steganography

Correct_option: Asymmetric encryption

Question 41:

Which of the following is the most critical factor when selecting a cloud storage drive for business use? (CO1)
Question 41:
Option_a: Cost-effectiveness
Option_b: Brand popularity
Option_c: Availability of desktop themes
Option_d: Number of colors in the interface
Correct_option: Cost-effectiveness

Question 42:

Why is security an important factor in choosing a cloud storage provider? (CO2)
Question 42:
Option_a: It ensures protection against data breaches and unauthorized access
Option_b: It reduces the need for data backups
Option_c: It allows multiple users to edit files without restrictions
Option_d: It increases download speed
Correct_option: It ensures protection against data breaches and unauthorized access

Question 43:

Which of the following factors is crucial for selecting a cloud storage drive for real-time collaboration? (CO3)
Question 43:
Option_a: Support for simultaneous editing and file versioning
Option_b: High latency in file uploads
Option_c: Restriction of multiple device access
Option_d: Limited API integrations
Correct_option: Support for simultaneous editing and file versioning

Question 44:

Which aspect should be prioritized when selecting cloud storage for large media files? (CO4)
Question 44:
Option_a: High storage capacity and fast upload/download speeds
Option_b: Limited bandwidth for data transfer
Option_c: Basic text file storage capabilities
Option_d: Minimal security protocols
Correct_option: High storage capacity and fast upload/download speeds

Question 45:

How does scalability impact cloud storage selection for enterprises? (CO5)
Question 45:
Option_a: It allows the storage capacity to be expanded as needed
Option_b: It limits access to stored data
Option_c: It reduces storage performance over time
Option_d: It ensures data is permanently deleted
Correct_option: It allows the storage capacity to be expanded as needed

Question 46:

Why is compliance with regulatory standards important when choosing a cloud storage provider? (CO3)
Question 46:
Option_a: To ensure data storage meets legal and industry requirements
Option_b: To increase the provider's marketing reach
Option_c: To avoid user authentication processes
Option_d: To allow unrestricted data sharing
Correct_option: To ensure data storage meets legal and industry requirements

Question 47:

Which of the following best describes data redundancy in cloud storage? (CO2)
Question 47:
Option_a: Storing multiple copies of data across different locations
Option_b: Allowing users to delete duplicate files automatically
Option_c: Restricting access to stored files
Option_d: Encrypting data to prevent duplication
Correct_option: Storing multiple copies of data across different locations

Question 48:

How does data synchronization enhance cloud storage usability? (CO4)
Question 48:
Option_a: It ensures files are updated across multiple devices in real-time
Option_b: It permanently deletes old file versions
Option_c: It restricts access to certain users
Option_d: It slows down file transfer speeds
Correct_option: It ensures files are updated across multiple devices in real-time

Question 49:

Why is integration with third-party applications a key factor when selecting cloud storage? (CO5)
Question 49:

Option_a: It enables seamless workflow automation and data sharing
Option_b: It reduces storage capacity
Option_c: It limits access to files
Option_d: It increases data redundancy
Correct_option: It enables seamless workflow automation and data sharing

Question 50:

What is a major disadvantage of selecting a cloud storage provider with no offline access feature? (CO1)
Question 50:
Option_a: Users cannot access files without an internet connection
Option_b: Files become permanently inaccessible
Option_c: It increases storage costs
Option_d: Data security is compromised
Correct_option: Users cannot access files without an internet connection

Question 51:
Which encryption method is commonly used for securing data before uploading to the cloud? (CO5)
Question 51:

Option_a: AES (Advanced Encryption Standard)
Option_b: Plain text storage
Option_c: MD5 hashing
Option_d: No encryption
Correct_option: AES (Advanced Encryption Standard)

Question 52:
Which encryption technique uses two keys for secure communication? (CO5)
Question 52:

Option_a: Asymmetric encryption
Option_b: Symmetric encryption
Option_c: Block cipher
Option_d: Stream cipher
Correct_option: Asymmetric encryption

Question 53:
Which of the following is a drawback of symmetric encryption in cloud storage? (CO5)
Question 53:

Option_a: Key distribution challenges
Option_b: Faster encryption process
Option_c: Stronger security than asymmetric encryption
Option_d: Less computational power required
Correct_option: Key distribution challenges

Question 54:
Which algorithm is an example of asymmetric encryption used in cloud security? (CO5)
Question 54:

Option_a: RSA
Option_b: DES
Option_c: Blowfish
Option_d: SHA-256
Correct_option: RSA

Question 55:
Which encryption method is recommed for protecting sensitive data in cloud storage? (CO5)
Question 55:

Option_a: AES-256
Option_b: DES
Option_c: Base64 encoding
Option_d: MD5 hashing
Correct_option: AES-256

Question 56:
What is an effective approach to enhance cloud storage security? (CO5)
Question 56:

Option_a: Multi-factor authentication (MFA)
Option_b: Storing passwords in plain text
Option_c: Using outdated encryption algorithms
Option_d: Ignoring software updates
Correct_option: Multi-factor authentication (MFA)

Question 57:
Which security approach prevents unauthorized access to cloud storage data? (CO5)
Question 57:

Option_a: Zero Trust Model
Option_b: Default open access
Option_c: Weak password policies
Option_d: No encryption
Correct_option: Zero Trust Model

Question 58:
What does "-to- Encryption (E2EE)" ensure in cloud storage? (CO5)
Question 58:

Option_a: Only the ser and receiver can access the data
Option_b: Data is always accessible to third-party cloud providers
Option_c: Files remain in unencrypted format
Option_d: No authentication is required
Correct_option: Only the ser and receiver can access the data

Question 59:
Which of the following enhances security in cloud storage? (CO5)
Question 59:

Option_a: Encrypting files before uploading
Option_b: Using weak passwords
Option_c: Disabling firewalls
Option_d: Storing data without access control
Correct_option: Encrypting files before uploading

Question 60:
Which of the following weakens cloud storage security? (CO5)
Question 60:

Option_a: Using simple passwords
Option_b: Encrypting data before uploading
Option_c: Enabling two-factor authentication
Option_d: Using strong encryption
Correct_option: Using simple passwords

Question 61:
Which of the following does NOT enhance security in cloud storage? (CO5)
Question 61:

Option_a: Using outdated encryption algorithms
Option_b: Implementing Zero Trust Architecture
Option_c: Regular security audits
Option_d: Using AES-256 encryption
Correct_option: Using outdated encryption algorithms

Question 62:
Which factor is crucial when selecting a cloud storage service? (CO5)
Question 62:

Option_a: Security features and encryption
Option_b: Number of advertisements
Option_c: Presence of social media integrations
Option_d: Lack of user authentication
Correct_option: Security features and encryption

Question 63:
Which cloud storage service is known for strong encryption and security? (CO5)
Question 63:

Option_a: Tresorit
Option_b: Public FTP servers
Option_c: Free unencrypted file sharing services
Option_d: Basic file-sharing tools without security
Correct_option: Tresorit

Question 64:
Which factor should be considered when selecting a cloud storage provider? (CO5)
Question 64:

Option_a: Compliance with data protection laws
Option_b: No security measures

Option_c: Lack of data encryption
Option_d: No authentication requirements
Correct_option: Compliance with data protection laws

Question 65:
Which cloud storage feature is essential for business use? (CO5)
Question 65:

Option_a: Role-based access control (RBAC)
Option_b: No security authentication
Option_c: Storing files in plain text
Option_d: Limited user access control
Correct_option: Role-based access control (RBAC)

Question 66:
Which of the following is an important factor for cloud storage security? (CO5)
Question 66:

Option_a: Data encryption in transit and at rest
Option_b: No authentication required
Option_c: Public file sharing by default
Option_d: No regular security updates
Correct_option: Data encryption in transit and at rest

Question 67:
Why is **data redundancy** important in cloud storage? (CO5)
Question 67:

Option_a: Ensures data availability in case of failures
Option_b: Increases security vulnerabilities
Option_c: Slows down access speed
Option_d: Reduces storage efficiency
Correct_option: Ensures data availability in case of failures

Question 68:
Which compliance regulation is crucial for cloud storage security? (CO5)
Question 68:

Option_a: GDPR (General Data Protection Regulation)
Option_b: No compliance standards
Option_c: Unregulated data access
Option_d: Publicly available data
Correct_option: GDPR (General Data Protection Regulation)

Question 69:
Which feature improves **cloud storage security**? (CO5)

Option_a: -to- encryption
Option_b: Public file sharing
Option_c: Weak passwords
Option_d: No user authentication
Correct_option: -to- encryption

Question 70:
What is the role of **Multi-Factor Authentication (MFA)** in cloud storage? (CO5)

Option_a: Adds an extra layer of security
Option_b: Slows down access speed
Option_c: Increases the risk of breaches
Option_d: Allows access without a password
Correct_option: Adds an extra layer of security

Question 71:
Which of the following encryption algorithms is commonly used for securing cloud storage? (CO5)

Option_a: AES
Option_b: MD5
Option_c: SHA-1
Option_d: DES
Correct_option: AES

Question 72:
What is the key advantage of using AES encryption for cloud storage? (CO5)

Option_a: Strong security with minimal computational overhead
Option_b: Requires weak passwords
Option_c: Increases vulnerability to cyber attacks
Option_d: No encryption key needed
Correct_option: Strong security with minimal computational overhead

Question 73:
Which key length is considered most secure for AES encryption? (CO5)

Option_a: 256-bit
Option_b: 64-bit
Option_c: 128-bit
Option_d: 32-bit
Correct_option: 256-bit

Question 74:
Which encryption method uses the same key for both encryption and decryption? (CO5)
Question 74:

Option_a: Symmetric encryption
Option_b: Asymmetric encryption
Option_c: Hashing
Option_d: Steganography
Correct_option: Symmetric encryption

Question 75:
Which technique ensures encrypted files remain protected even if stolen? (CO5)
Question 75:

Option_a: Zero-knowledge encryption
Option_b: Storing in plain text
Option_c: Using weak passwords
Option_d: Sharing files publicly
Correct_option: Zero-knowledge encryption

Question 76:
Which of the following ensures **secure data transmission** between client and cloud storage? (CO5)
Question 76:

Option_a: TLS (Transport Layer Security)
Option_b: HTTP (HyperText Transfer Protocol)
Option_c: FTP (File Transfer Protocol)
Option_d: Plain text transmission
Correct_option: TLS (Transport Layer Security)

Question 77:
What is a major benefit of encrypting cloud backups? (CO5)
Question 77:

Option_a: Prevents unauthorized access
Option_b: Makes data inaccessible to the owner
Option_c: Reduces storage space
Option_d: Increases malware risk
Correct_option: Prevents unauthorized access

Question 78:
Which factor is crucial when encrypting cloud-stored data? (CO5)

Option_a: Key management
Option_b: Disabling encryption
Option_c: Sharing encryption keys publicly
Option_d: Using outdated algorithms
Correct_option: Key management

Question 79:
Which of the following weakens cloud storage security? (CO5)

Option_a: Using outdated encryption methods
Option_b: Enabling MFA
Option_c: Encrypting data before uploading
Option_d: Using role-based access control
Correct_option: Using outdated encryption methods

Question 80:
Why is using the same password across multiple cloud storage accounts risky? (CO5)

Option_a: Increases vulnerability to credential stuffing attacks
Option_b: Increases security
Option_c: Reduces hacking risks
Option_d: Ensures stronger encryption
Correct_option: Increases vulnerability to credential stuffing attacks

Question 81:
Which cloud storage service offers -to- encryption for data security? (CO5)

Option_a: Tresorit
Option_b: Dropbox
Option_c: Google Drive
Option_d: OneDrive
Correct_option: Tresorit

Question 82:
Which cloud storage service is known for strong privacy protection? (CO5)

Option_a: Sync.com
Option_b: Public FTP servers

Option_c: WeTransfer
Option_d: Box
Correct_option: Sync.com

Question 83:
What is a key consideration when selecting a **secure** cloud storage service? (CO5)
Question 83:

Option_a: -to- encryption support
Option_b: Lack of authentication
Option_c: Public file sharing by default
Option_d: No security policies
Correct_option: -to- encryption support

Question 84:
Which cloud storage service does **not** offer client-side encryption by default? (CO5)
Question 84:

Option_a: Dropbox
Option_b: Tresorit
Option_c: Sync.com
Option_d: pCloud
Correct_option: Dropbox

Question 85:
Which compliance regulation is important for **cloud data security**? (CO5)
Question 85:

Option_a: HIPAA
Option_b: No regulation needed
Option_c: Public access policies
Option_d: Unencrypted storage requirements
Correct_option: HIPAA

Question 86:
What is an important feature for **secure access to cloud storage**? (CO5)
Question 86:

Option_a: Multi-factor authentication (MFA)
Option_b: Weak password policies
Option_c: No encryption
Option_d: Public access without authentication
Correct_option: Multi-factor authentication (MFA)

Question 87:
Why is **versioning** important in cloud storage security? (CO5)
Question 87:

Option_a: Helps recover files after ransomware attacks
Option_b: Reduces security
Option_c: Slows down system performance
Option_d: Increases unauthorized access risks
Correct_option: Helps recover files after ransomware attacks

Question 88:
Which cloud storage security feature helps **protect against unauthorized access**? (CO5)
Question 88:

Option_a: Role-Based Access Control (RBAC)
Option_b: Weak passwords
Option_c: Public data exposure
Option_d: No authentication required
Correct_option: Role-Based Access Control (RBAC)

Question 89:
Which feature helps in **detecting anomalies** in cloud storage security? (CO5)
Question 89:

Option_a: AI-driven threat detection
Option_b: No logging mechanisms
Option_c: Open access policies
Option_d: Unencrypted data storage
Correct_option: AI-driven threat detection

Question 90:
Why is **zero-trust security** important for cloud storage? (CO5)
Question 90:

Option_a: Prevents unauthorized access through continuous verification
Option_b: Allows unrestricted access
Option_c: Eliminates encryption needs
Option_d: Reduces security risks
Correct_option: Prevents unauthorized access through continuous verification

Question 91:

Which factor primarily influences cloud storage performance for large enterprises? (CO2)
Question 91:
Option_a: Network latency and bandwidth availability
Option_b: Number of users accessing the cloud storage

Option_c: Color scheme of the cloud interface
Option_d: Support for only small text files
Correct_option: Network latency and bandwidth availability

Question 92:

How does -to- encryption benefit cloud storage users? (CO3)
Question 92:
Option_a: It prevents unauthorized access to stored data
Option_b: It increases file size significantly
Option_c: It makes files accessible only to cloud administrators
Option_d: It limits the number of devices that can access the storage
Correct_option: It prevents unauthorized access to stored data

Question 93:

Which factor is most crucial for selecting a cloud storage service for sensitive government data? (CO5)
Question 93:
Option_a: Compliance with government regulations like GDPR and HIPAA
Option_b: Availability of an intuitive user interface
Option_c: Support for multiple themes and wallpapers
Option_d: Low-cost subscription plans
Correct_option: Compliance with government regulations like GDPR and HIPAA

Question 94:

Why is redundancy an essential feature in cloud storage selection? (CO4)
Question 94:
Option_a: It ensures data is not lost even if one storage location fails
Option_b: It increases the speed of file retrieval
Option_c: It prevents the use of multiple devices
Option_d: It limits the size of uploaded files
Correct_option: It ensures data is not lost even if one storage location fails

Question 95:

What is the primary advantage of selecting a cloud storage service with automatic backup? (CO2)
Question 95:
Option_a: It protects data from accidental deletion and corruption
Option_b: It speeds up file download speeds
Option_c: It allows users to store unlimited data without cost
Option_d: It eliminates the need for strong authentication
Correct_option: It protects data from accidental deletion and corruption

Question 96:

Which of the following best describes the significance of multi-device access in cloud storage? (CO3)
Question 96:
Option_a: It allows users to access and edit files from different devices seamlessly
Option_b: It restricts access to a single user at a time
Option_c: It reduces cloud storage security
Option_d: It increases data storage redundancy unnecessarily
Correct_option: It allows users to access and edit files from different devices seamlessly

Question 97:

What is the primary role of an API in cloud storage selection? (CO4)
Question 97:
Option_a: It enables integration with third-party applications and automation
Option_b: It reduces cloud storage capacity
Option_c: It restricts data sharing among users
Option_d: It prevents unauthorized users from accessing files
Correct_option: It enables integration with third-party applications and automation

Question 98:

Which storage selection factor is most important for organizations requiring fast data retrieval? (CO5)
Question 98:
Option_a: Low latency and high-speed data transfer
Option_b: Availability of multiple pricing plans
Option_c: Number of users allowed on the platform
Option_d: Availability of colorful dashboard themes
Correct_option: Low latency and high-speed data transfer

Question 99:

How does data compression improve cloud storage efficiency? (CO2)
Question 99:
Option_a: It reduces file size, optimizing storage space and bandwidth usage
Option_b: It prevents files from being accessed remotely
Option_c: It limits the ability to share files across devices
Option_d: It increases storage costs
Correct_option: It reduces file size, optimizing storage space and bandwidth usage

Question 100:

Why is version control an essential feature in cloud storage selection? (CO3)
Question 100:

Option_a: It allows users to track and restore previous file versions
Option_b: It permanently deletes old versions of files
Option_c: It prevents multiple users from accessing the same file
Option_d: It restricts storage space availability
Correct_option: It allows users to track and restore previous file versions