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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VI - THEORY EXAMINATION (2023 - 2024)

Subject: Cloud Storage Management

Time: 3 Hours

Max. Marks: 100

**General Instructions:****IMP:** Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

**SECTION A****20****1. Attempt all parts:-**

- 1-a. Select which of the following is an example of an object storage service.(CO1) 1
- (a) Amazon S3
  - (b) Dropbox
  - (c) OneDrive
  - (d) iCloud
- 1-b. Advantage of using block storage .(CO1) 1
- (a) It allows for easy collaboration and sharing of files
  - (b) It is less expensive than traditional storage methods
  - (c) It provides faster access to data than traditional storage methods
  - (d) It can handle large amounts of unstructured data
- 1-c. Select the right option which define the best practices for securing digital assets in the cloud. (CO2) 1
- (a) Regularly updating software and firmware
  - (b) Storing data in plain text

- (c) Allowing unauthenticated access to data
- (d) Using weak passwords
- 1-d. Chose one option which is NOT a potential security risk in cloud storage. (CO2) 1
- (a) Insider attacks
- (b) Third-party access
- (c) Server downtime
- (d) Lack of integration with legacy systems
- 1-e. Zonal persistent disks provide replication of data within \_\_\_\_\_ zone in a region. (CO3) 1
- (a) Multi
- (b) Global
- (c) Single
- (d) All of the mentioned
- 1-f. User can use S3 Versioning to keep \_\_\_\_\_ version(s) of an object in the same bucket. (CO3) 1
- (a) Multiple
- (b) Singal
- (c) Dual
- (d) None of the mentioned
- 1-g. The \_\_\_\_\_ is a standalone terminal application that you run on your local workstation to do your data transfer. (CO4) 1
- (a) Snowball Family
- (b) Snowball Edge
- (c) Snowball client
- (d) None of the mentioned
- 1-h. Snowball devices are designed to be requested and used within \_\_\_\_\_ AWS Region. (CO4) 1
- (a) Multi
- (b) Global
- (c) Single
- (d) All of the mentioned
- 1-i. As data becomes infrequently and rarely accessed, you can even automatically move it to \_ storage, thus creating even more cost savings. (CO5) 1

- (a) higher cost
- (b) lower - cost
- (c) hidden cost
- (d) simple cost

- 1-j. \_\_\_ allow IT to quickly deliver the exact amount of storage needed, whenever and wherever it's needed. (CO5) 1
- (a) Cloud storage services
  - (b) backup services
  - (c) hardware services
  - (d) maintenance services

**2. Attempt all parts:-**

- 2.a. Explain Para virtualization. (CO1) 2
- 2.b. Define Network Blind spots. (CO2) 2
- 2.c. Define Tiered storage. (CO3) 2
- 2.d. Enlist the roles of Data Migration Architect. (CO4) 2
- 2.e. Discuss the ways in which AWS empower the CloudCall. (CO5) 2

**SECTION B**

**30**

**3. Answer any five of the following:-**

- 3-a. Explain wireless access point with their advantage and disadvantage. (CO1) 6
- 3-b. Explain Network virtualization with suitable example. (CO1) 6
- 3-c. Explain Security checklist in cloud security with suitable example. (CO2) 6
- 3-d. Discuss any six Cloud Data Security Issues with suitable example. (CO2) 6
- 3.e. Discuss the three throughput modes of Amazon EFS. (CO3) 6
- 3.f. Write short notes on: (i) AWS Snow Family (ii) AWS Snow Edge (CO4) 6
- 3.g. Explain in detail the ways in which AWS empower the Orion Health. (CO5) 6

**SECTION C**

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**4. Answer any one of the following:-**

- 4-a. Define routers and it's application with suitable example. (CO1) 10
- 4-b. Differentiate between Public cloud and Private cloud with suitable example. (CO1) 10

**5. Answer any one of the following:-**

- 5-a. Explain digital assets in cloud storage with suitable example and also discuss 10

their advantage and disadvantage. (CO2)

- 5-b. Discuss any six applications related issues in cloud storage management with suitable example. (CO2) 10

**6. Answer any one of the following:-**

- 6-a. Write short notes on: (i) Bucket (ii) Object in cloud storage (iii) Versioning (iv) Access control. (CO3) 10
- 6-b. An organization have tier 0, tier 1, tier 2 and tier 3 categories of data. Discuss these categories and provide cloud storage sloutions for these categories. (CO3) 10

**7. Answer any one of the following:-**

- 7-a. Discuss the role of Data Replication, Data Cleansing and Data Harmonization in Data Synchronization. (CO4) 10
- 7-b. Differentiate AWS Transfer Family with Database Migration Services on the basis of their usage and functionalities. (CO4) 10

**8. Answer any one of the following:-**

- 8-a. Explain how NASA Jet propulsion laboratory is benefitted by AWS cloud. (CO5) 10
- 8-b. Explain the role of AWS cloud in agriculture with suitable cases. (CO5) 10

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