

IMSc IT IMSCS Sem.-3 Examination  
IMS-305

Fundamentals of Storage Mgmt.

Time : 2.30 Hours]

December-2025

[Max.Marks : 70

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Do not write anything on the question paper.

**Q. 1) Answer the following question**

(14 Mark)

A) Describe File System in details, FAT32, NTFS and EXT2/3.

OR

Describe the Evaluation of Storage Architecture. DAS, SAN and NAS.

B) Answer the following questions in 1-2 lines (Any 4)

(4 Mark)

1. What is Virtualization?
2. What is a Device Driver?
3. What is a SCSI Drive?
4. What is LVM in Storage System?
5. What is a HBA in a Storage System?
6. What is a NIC in a Computer System?

**Q. 2) Answer the following question**

(14 Mark)

A) Describe Business Continuity (BC), Information Availability (IA), Downtime and Measuring Information Availability?

OR

Describe Network Attached Storage (NAS), Benefits of NAS, NAS File Systems, NAS Components, NAS Protocols: CIFS and NFS.

B) Answer the following questions in 1-2 lines (Any 2)

(2 Mark)

1. What is single point of failure?
2. Write SCSI Addressing.
3. What is World Wide Name in FC?
4. Write is Backup and their types.

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**Q. 3) Answer the following question**

**(14 Mark)**

A) Describe Content-Addressed Storage and Unified Storage.

OR

Describe Business Continuity Planning Life Cycle. Describe failure Analysis.

B) Answer the following questions in 1-2 lines (Any 4)

**(4 Mark)**

1. What is VG in LVM?
2. What is PCI?
3. What is SSD Hard disk?
4. What is RPM In a HDD?
5. What is Parity in RAID?

**Q. 4) Answer the following question**

**(14 Mark)**

A) Describe RAID types 1, 2, 5, 6, 1+0 and 0+1 with required Diagram.

OR

Describe Cloud Computing Characteristics, Benefits and Service Model.

B) Answer the following questions in 1-2 lines (Any 4)

**(4 Mark)**

1. What is a Hot Spare?
2. What is Port and Controller in a Storage System?
3. What is a Virtual Machine?
4. What is Grid Computing?
5. What is Remote Replication?

