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B.Tech.(IT)(E-I 2012 to 2017) (Sem.-6) STORAGE MANAGEMENT

Subject Code: BTIT-901 M.Code: 71175

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a. What are the key attributes of data storage infrastructure?
- b. Outline the properties and operations of Network-Attached Storage (NAS).
- c. Mention two major challenges of data storage and management.
- d. Differentiate local and remote replication technique in disaster recovery.
- e. Enlist the features of Content Addressed Storage (CAS).
- f. What are the major components of an Intelligent Storage System (ISS)?
- g. Name two benefits and two limitations of using FC-SAN over IP-SAN.
- h. Elaborate the concept of multiple replicas and its advantage.
- i. What is data retention? How it helps in data recovery?
- j. Identify logical and physical components of a storage infrastructure.



SECTION-B

- 2. Discuss Object Storage and Retrieval in Content Addressed Storage (CAS) and outline its major properties.
- 3. Identify various data centre infrastructure elements and their requirements in storage management.
- 4. What is hierarchical space management? Also, comment on the concept of database & application protection and bare machine recovery.
- 5. Illustrate the evolution of storage technology from non-intelligent storage system to intelligent networked storage.
- 6. Elaborate the purpose of performing backup, disaster recovery and replication in detail.

SECTION-C

- 7. Describe, in detail, the conceptual framework of RAID. Explain its levels (RAID 0 to RAID 6) and compare their characteristics.
- 8. Discuss the evolution of networked storage and briefly outline its architecture along with description of FC-SAN.
- 9. Write short notes on following with respect to security management:
 - a. Identity Management and Single sign-on
 - b. SAN and NAS

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.

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