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Fifth Semester MCA Degree Examination, June/July 2017
Storage Area Network

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. What are the seven requirements of storage technology? (10 Marks)
 - b. What are the five core technology elements of the Data center Infrastructure? (05 Marks)
 - c. Differentiate between :
 - i) Seek Time and Rotational Time
 - ii) Internal and External transfer rates. (05 Marks)
- 2
 - a. Explain the different types of RAID level available in market. (10 Marks)
 - b. Explain least recently used and most recently used algorithms. (05 Marks)
 - c. Differentiate between write through and write back cache. (05 Marks)
- 3
 - a. What is the component of SAN? Explain in detail. (10 Marks)
 - b. Explain types of zoning. (04 Marks)
 - c. Explain SCSI-3 client server model. (06 Marks)
- 4
 - a. What is Network Attached Storage (NAS)? List the benefits of NAS with brief discussion. (08 Marks)
 - b. What are the NAS components, discuss them, with necessary diagram. (06 Marks)
 - c. Explain the topologies for iSCSI connectivity. (06 Marks)
- 5
 - a. List out the features and benefits of Content Address Storage (CAS). (06 Marks)
 - b. Explain the process of storing and retrieving objects in CAS. (10 Marks)
 - c. Brief out the storage virtualization challenges. (04 Marks)
- 6
 - a. Explain Business Continuity (BC) planning Life cycle. (07 Marks)
 - b. Explain Backup and Restore operations. (06 Marks)
 - c. Describe different types of Backup Topologies. (07 Marks)
- 7
 - a. Explain storage Array-Based Local Replication. (10 Marks)
 - b. What is the different type of modes of Remote Replication? (05 Marks)
 - c. Describe synchronous Replication mode in Remote Replication. (Array based) (05 Marks)
- 8
 - Write short notes on each
 - a. Alerts
 - b. Kerberos
 - c. Basic SAN security mechanisms
 - d. Storage security framework. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.