Fifth Semester MCA Degree Examination, Dec.2017/Jan.2018
Storage Area Networks

Time: 3 hrs.

Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. What are the key challenges in managing information? Explain the process of information lifecycle management. **(10 Marks)**
   b. What are the various components of disk drive? Explain. **(10 Marks)**

2 a. Explain the various RAID techniques with neat diagram. **(10 Marks)**
   b. With the neat diagram, explain the components of intelligent storage system. **(10 Marks)**

3 a. Explain SCSI–3 architecture with respect to client server model and communication model. **(10 Marks)**
   b. Explain various components of SAN. **(10 Marks)**

4 a. Explain the benefits of NAS? With neat diagram explain components of NAS. **(10 Marks)**
   b. Explain the various factors affecting NAS performance. **(10 Marks)**

5 a. Explain the process of object storage and retrieval in CAS. **(10 Marks)**
   b. Explain features and benefits of CAS. **(07 Marks)**
   c. What are the types of archives that can be implemented based on mean of access? **(03 Marks)**

6 a. List the stages included in BC planning lifecycle. Explain BC planning lifecycle with neat diagram. **(10 Marks)**
   b. Explain backup and restore operation with neat diagram. **(10 Marks)**

7 a. Explain tracking changes the source and replica with neat diagram. **(10 Marks)**
   b. Explain the uses of local replicas. **(05 Marks)**
   c. Explain synchronous and asynchronous replication. **(05 Marks)**

8 Write a note on following :
   a. Risk triad
   b. Kerberos
   c. Storage infrastructure management activities.
   d. NAS file sharing : authentication and authorization. **(20 Marks)**

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