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10MCA555

Fifth Semester MCA Degree Examination, June/July 2016
Storage Area Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. What are the physical and logical components of a host? (10 Marks)
b. What is the difference between
(i) Seek time and rotational latency (ii) Internal and External transfer rate. (10 Marks)
- 2 a. Define and compare RAID levels. (12 Marks)
b. What is the difference between write-through and write-back cache? (08 Marks)
- 3 a. Discuss the benefits and challenges of DAS. (08 Marks)
b. Discuss three FC interconnectivity options. (09 Marks)
c. Briefly explain three types of zoning. (03 Marks)
- 4 a. Describe NAS, its benefits and components. (12 Marks)
b. What is the difference between a native and bridge SCSI implementation? (05 Marks)
c. What are the physical components of FCOE? (03 Marks)
- 5 a. Describe data storage and retrieval process in CAS environment. (10 Marks)
b. Explain different virtualization technologies. (10 Marks)
- 6 a. Define Business Continuity and Information Availability. (05 Marks)
b. What is the difference between RPO and RTO? (06 Marks)
c. What are the three levels of granularity found in Backups? (09 Marks)
- 7 a. Explain host based local replication technologies. (10 Marks)
b. Explain storage array based remote replication technologies. (10 Marks)
- 8 a. What are the primary security attributes? (08 Marks)
b. Explain the major storage infrastructure components that should be monitored and define various parameters for monitoring. (12 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.