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10CS/IS765

**Seventh Semester B.E. Degree Examination, June/July 2019**  
**Storage Area Networks**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting  
at least TWO questions from each part.**

**PART – A**

- 1 a. Which core elements are essential for the basic functionality of a data center? Briefly explain with an order processing system. (12 Marks)
- b. What is disk service time? Explain different service times on a disk driver. (08 Marks)
  
- 2 a. Compare the RAID0, RAID1, RAID 1+0 and RAID 0+1 based on storage efficiency, Read performance write performance and write penalty. (12 Marks)
- b. Briefly explain Read hit and Read miss in cache. (08 Marks)
  
- 3 a. With neat diagram explain SCSI communication model. (10 Marks)
- b. What are different types of ports available in Fiber channel? Also mention its uses. (10 Marks)
  
- 4 a. What are the benefits of NAS. (10 Marks)
- b. Explain NAS File – sharing protocols. (10 Marks)

**PART – B**

- 5 a. Define Archives. Explain different types of Archives with an example. (10 Marks)
- b. Explain the concept of storage virtualization with figure. (10 Marks)
  
- 6 a. Explain BC planning life cycle. (12 Marks)
- b. With neat diagram explain LAN based back up topology. (08 Marks)
  
- 7 a. Explain different purposes of Local replica for source data. (10 Marks)
- b. Explain Host – based log shipping. (10 Marks)
  
- 8 Write a short note on :
  - a. Assets
  - b. Threats
  - c. Vulnerability
  - d. Data encryption
 (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.