

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)