USN ☐☐☐☐☐☐☐☐☐☐

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 penality. **(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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