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06CS/IS833

**Eighth Semester B.E. Degree Examination, Dec.2013/Jan.2014**  
**Storage Area Networks**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. Compare and contrast server centric IT architecture and storage centric IT architecture. (10 Marks)  
b. Explain how storage area network influence business applications defined for storage. (10 Marks)
- 2 a. Explain different I/O techniques used in disk storage system with neat diagram. (08 Marks)  
b. What are the two major goals of RAID? Also explain RAID 0 and RAID 1 with neat diagram. (12 Marks)
- 3 a. What do you mean by mirrored stripes? What is the advantage and disadvantage of it and explain how it can be overcome. (10 Marks)  
b. What is LUN masking? Why it is necessary? (02 Marks)  
c. Explain LUN masking with neat diagram also mention its types. (08 Marks)
- 4 a. Explain what are the different service classes used for data exchange between end devices with respect to fibre channel protocol stack. (10 Marks)  
b. Write short note on NAS hardware architecture. (10 Marks)

**PART – B**

- 5 a. Describe the usage of volume manager in local file system. (06 Marks)  
b. Write short note on shared disk file system. (08 Marks)  
c. Compare NAS and fibre channel SAN. (06 Marks)
- 6 a. What are the objectives of virtualization? Discuss how virtualization entity can be positioned on different levels of the storage network. (10 Marks)  
b. Write short note on symmetric storage virtualization. (10 Marks)
- 7 a. Explain software part of SAN component. (10 Marks)  
b. Describe different fibre channel enabled disks configurations. (10 Marks)
- 8 a. What are the components of switch operating system, describe in detail. (10 Marks)  
b. What is business continuity? Explain the role of storage network in business continuity. (10 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.