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**First Semester M.Tech. Degree Examination, Dec.2014/Jan.2015**  
**Advances in Storage Area Networks**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions.**

- 1 a. Explain how to replacing a server with storage networks. (12 Marks)  
 b. With neat diagram, explain how RAID0 working. (08 Marks)
- 2 a. Explain fiber channel protocol stack. (12 Marks)  
 b. With neat diagram compare NFS, uDAFS and fDAFs. (08 Marks)
- 3 a. With neat diagram explain NAS hardware components. (10 Marks)  
 b. Explain briefly journaling and volume manage concepts. (10 Marks)
- 4 a. Define virtualization. Explain briefly. (10 Marks)  
 b. Describe briefly block-level storage virtualization. (10 Marks)
- 5 a. Explain fabric OS services. (10 Marks)  
 b. Briefly describe network part in the SAN components. (10 Marks)
- 6 a. List and explain five core components required to permit the full management of storage network service. (10 Marks)  
 b. Define SNMP. Explain SNMP operations. (10 Marks)
- 7 a. Explain common information model (CIM) extension schemes. (12 Marks)  
 b. What are the objectives of storage virtualization? (08 Marks)
- 8 Write a short note on: (20 Marks)
  - a. Mirroring.
  - b. Stripping
  - c. Parity
  - d. Snapshots.

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