

**R09**

**Code No: C2510**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I Semester Examinations March/April 2011**

**STORAGE AREA NETWORKS**

**(SOFTWARE ENGINEERING)**

**Time: 3hours**

**Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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1. a. Discuss the Client/Server storage model.  
b. Mention the core elements of a data center infrastructure.  
Explain the role of each element. [12]
2. a. Briefly explain different levels of RAID.  
b. Discuss fundamental laws to govern disk performance. [12]
3. a. Compare and contrast Integrated and Modular storage systems.  
b. Explain physical and logical components of a storage environment.[12]
4. a. Explain Fiber Channel architecture. Discuss any one Fiber channel topologies.  
b. List the components of NAS. Discuss the factors affecting NAS performance and availability. [12]
5. a. Explain about Replication technologies and their role in ensuring information availability and business continuity.  
b. Explain about local and remote replication technologies. [12]
6. a. Discuss key metrics to monitor for different components in a storage infrastructure.  
b. Discuss key management tasks in a data center. [12]
7. a. Explain Security implementations in Storage networking.  
b. Discuss Critical Security attributes for information systems. [12]
8. Explain block-level and file-level Virtualization technologies. [12]

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