**R09**

**Code No: C6209**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012**
**STORAGE AREA NETWORKS**
**(WEB TECHNOLOGIES)**

**Time: 3hours** **Max.Marks:60**

**Answer any five questions**
**All questions carry equal marks**
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1. What are the limitations of server-centric IT architecture? How to overcome? Explain.

2. How are I/O channels designed with built-in redundancy for increased tolerance of faults of the disk subsystems? Explain briefly.

3. Describe the necessary technique which helps to protect the data against any catastrophical situations in a network.

4. Explain the importance of each layer in the fibre channel protocol stack.

5. Clearly bring out the difference between the fibre channel and NAS.

6. How is storage virtualization achieved on various levels of the storage network? Explain any one level in detail.

7. Write briefly about
   i. Fibre channel RAID
   ii. Basics functions of the fibre channel host bus adapter.

8. Give a view of SAN as an entire solution for implementing a SAN configuration into a data center. Also indicate the main challenges faced during its implementation.

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