Code No: C2510 **R09**

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

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

Answer any five questions
All questions carry equal marks
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1. Briefly discuss the benefits of storage networks on business applications.

2. Explain the following RAID levels with necessary block diagrams
   a) RAID 0
   b) RAID 1+0.

3. Write briefly on
   a) LUN masking
   b) SCSI and storage networks.

4. With a neat block diagram, explain the generic layout of NAS hardware components.

5. Define the following terms:
   a) Volume manager
   b) NAS gateway
   c) DAFS
   d) Journaling.

6. What is a storage virtualization? How is it achieved on block level and on file level? Explain.

7. Explain the three important parts of fibre channel switch and discuss its uses.

8. Explain the basic components of the Switch's operating system.

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