



Code No. : 5264/M

**FACULTY OF ENGINEERING**  
**B.E. 4/4 (CSE) II Semester (Main) Examination, May/June 2012**  
**INFORMATION STORAGE AND MANAGEMENT (Elective – II)**

Time : 3 Hours]

[Max. Marks : 75

**Note :** Answer *all* questions of Part A. Answer *any five* questions from Part B.

**PART – A**

**(Marks : 25)**

1. How has the storage technology evolved and define their architecture. **3**
2. What are the 3 factors that affect disk drives performance ? **3**
3. Intelligent storage systems generally fall into one of these 2 categories. Define. **2**
4. Explain the different types of logins defined by the fabric services. **3**
5. Illustrate the commonly used protocols for file sharing in NAS. **2**
6. Explain the topologies for iSCSI connectivity. **2**
7. What are the types of storage virtualization ? Explain with diagrams. **3**
8. Define MTBF and MTTR. How are they related to information availability ? (IA). **2**
9. Brief out few uses of doing a local replication. **2**
10. Write short notes on Risk Triad **3**

**PART – B**

**(Marks : 5×10=50)**

11. What is a file system ? How is the process of mapping userfiles to the Disk storage subsystem done with a LVM ? **10**
12. Describe the FC-Architecture in detail. **10**
13. Define iSCSI and how it carries Block-level data over IP based networks. **10**



14. Explain the terminology used in CAS. Also describe the process involved in retrieving an object from CAS. 10
15. Explain the 5 stages of BC planning life cycle. 10
16. Explain how backup is taken under a LAN based, SAN based and Mixed backup topologies with the help of neat diagrams. 10
17. Write short notes on :
- a) SNIA storage Virtualization taxonomy. 4
  - b) Fault Tolerance. 4
  - c) Virtual Tape Library. 2