



Code No. 5308 / M

FACULTY OF INFORMATICS

B.E. 4/4 (I.T.) II-Semester (Main) Examination, May / June 2012

Subject : **Information Storage and Management**
(Elective-IV)

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions of Part - A and answer any five questions from Part-B.

PART – A (25 Marks)

1. When trying to select the various technologies and solutions, what key characteristics are required of the data center elements? Enlist them. (2)
2. Enlist the core elements of a data center infrastructure. (3)
3. What are peripheral devices ? How are they connected to the main computer elements? (2)
4. What is a RAID Array? What are the different components of RAID array? (3)
5. What are the different components of a NAS device. ? (2)
6. What is "zoning" in FC SAN? (3)
7. What are the fine stages in Business continuity planning lifecycle? (3)
8. What is the benefit of using "virtual tape library " over "physical tapes"? (2)
9. Enlist they key challenges of storage virtualization. (2)
10. What is the importance of "information security"? (3)

PART – B (5x10=50 Marks)

- 11.(a) What is the importance of storage in different business domains? (4)
(b) Explain the evolution of storage technology and different architectures necessary to manage the current data storage requirements. (6)
- 12.(a) What are the major components of a physical disk? (4)
(b) Give a high level architecture and working of an intelligent storage system. (6)
13. Explain the Architecture, features and benefits of content addressed storage (CAS). (10)
- 14.(a) Enlist the different steps in back-up operation and Restore operation. (5)
(b) What are the different metrics that are useful to monitor the different components in a storage infrastructure? (5)
- 15.(a) What are the threats in management access domain? How can security be provided? (5)
(b) Briefly explain the concept of file-level virtualization. (5)
16. Explain the different RAID levels and their suitability for different application environments. (10)
17. Write short notes on the following :
(a) Replication approaches for higher availability and the challenges. (5)
(b) Security implementation in SAN and its architecture. (5)