Code No.: 3235

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FACULTY OF ENGINEERING

B.E. IV/IV Year (CSE) II Semester (Main) Examination, May/June, 2011

INFORMATION STORAGE AND MANAGEMENT

(Elective-II)

Time: 3 Hours [Max. Marks: 75 Answer all questions from Part A. Answer any five questions from Part B. **Part A** - (Marks : 25) NGG 1. What are the key requirements of data center infrastructure? 3 Differentiate between RAID 3 and RAID 5 3 LIBRAR' What are the different logical components of a host? 3 Compare write Back Cache and Write through Cache. 4. 2 What are the types of storage virtualization? 5. Define the following a HUB, a SWITCH and a DIRECTOR in a SAN 6. environment. 3 7. What are the different factors effecting NAS performance and availability? 3 8. What do you mean by RTO of 2 hours? 2 9. Brief out copy on first access write to target. 2 10. What are the types of Archives? 2 **Part B** – (Marks : $5 \times 10 = 50$) 11. What are the different disc drive components and explain logical block addressing in detail. 10 12. Which version of RAID causes increased and unnecessary 1/0 load RAID 10 or RAID 01. Justify with the help of a neat diagram? 10 13. What is the role of a CACHE in a ISS? Explain in detail. 10 14. Explain the Fibre channel Ports with the help of a fabric diagram. 10 15. Illustrate the process of "Storage" data objects on a CAS with a neat diagram. 10 16. How is LVM based replication done. 10 17. Write a short notes on the following: (a) Fibre channel protocal stack 3 (b) Single Point of Failure 3

(c) Storage Security Domains.