Total No. of Questions: 10 ] [ Total No. of Printed Pages: 3 Roll No. ..... CS/IT-703(N) B. E. (Seventh Semester) EXAMINATION, Dec., 2011 (New Scheme) (Common for CS & IT Engg. Branch) INFORMATION STORAGE AND MANAGEMENT Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35 Note: Attempt all questions. All questions carry equal marks. Unit-L 1. (a) Discuss various phases of information life cycle model. 10(b) Discuss various storage technologies in detail. 2. Explain briefly the following: 5 each (i) Data categorization (ii) Evolution of storage management (iii) Storage devices (iv) Data proliferation Unit-II

3. (a) Differentiate between the following:

(i) Integrated vs modular arrays(ii) Volume manager vs file system

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OPS. The disk s	th an I/O required time is 6 ms.
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- 10 4. Co
  - (a) Compute the following:
    - (i) Utilization of I/O controller
    - (ii) Total response time

    - (iv) Total time spent by a request in a queue (iii) Average queue size
    - (b) Compute the preceding parameter if the service time is halved.

## Unit-III 10

- 5. (a) What is zoning? Discuss a scenario: (i) where soft zoning is preferred over hard zoning
  - (ii) where hard zoning is preferred over soft zoning

  - (b) Discuss various security criticism in networked storage technologies.
  - 6. (a) What is Direct Attached Storage (DAS)? Write down its advantages and disadvantages. NAS
    - (b) Discuss the various factors 10 performance and availability.

- 7. (a) What is Data Centre? What are the requirements for 10 the design of a secure data center?
  - (b) What do VLANs virtualize? Discuss VLAN implementation as a virtualization technology.

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8. (a) What is key program management metrics (	? Explic
8. (a) What is key program manage	10
the characteristics of metrix.	nent. 10
(b) Discuss the scanty concern in backup environt	пени то
Unit-V	
9. (a) Write down the essential characteristics	of cloud
9. (a) Write down the essential	10
computing.	_
(b) Give a brief note on cloud architecture.	10
Or	
	5 each
10. Write short notes on the following:	3 Cach
(i) Cloud security	
(ii) Cloud vocabulary	
(iii) Risks of cloud computing	
(III) Region of and convices	
(iv) Cloud application and services	

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