

CS - 704

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B.E. VII Semester

Examination, December 2013

Information Storage and Management**Time : Three Hours****Maximum Marks : 70****Note:** Attempt any five questions. One question from each unit.**Unit - I**

1. a) What is structured and unstructured data? What are the challenges of storing and managing unstructured data?
- b) Explain various phases of information life cycle management? Take any suitable example.

OR

2. a) List the key characteristics of Data Center?
- b) What are the advantages of a virtualized data center over a classic data center.

Unit - II

3. a) Discuss the impact of random and sequential I/O in different RAID configuration.
- b) Explain the components of an intelligent storage system.

OR

4. a) Discuss cache coherency mechanism and explain how they address the environment with multiple shared caches.
- b) Compare the RAID level (0, 1, 2, 3, 4, 5, 6) in terms of storage efficiency, cost, read and write performance, write penalty and protection.

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Unit - III

5. a) How does flow control work in an FC network?
- b) Explain how the performance of NAS can be affected in the TCP window size at the sender and receiver are not synchronized.

OR

6. a) Explain storage migration using block-level storage virtualization. Compare this migration.
- b) How does the use of jumbo frames affect the NAS performance?

Unit - IV

7. a) Explain the benefits and challenges of using cloud storage for archiving.
- b) Explain MD-5, SHA-256 Algorithms.

OR

8. a) Explain Backup and recovery strategy in NAS environments.
- b) Describe the benefits of using a virtual tape library over a physical tape library.

Unit - V

9. a) What are the various considerations for selecting a public cloud service provider?
- b) What are the essential characteristics of cloud computing?

OR

10. Write short notes on :

- a) Cloud challenges
- b) Cloud computing infrastructure.

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