Roll No ....

CS - 704

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

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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 stared 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.

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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