Roll No ....

CS - 704

B.E. VII Semester

Examination, December 2015

Information Storage and Management

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) What is structured and unstructured data?

    b) Why data categorization is required?

    c) List the key characteristics of Data Center.

    d) Describe the evolution of storage technology and architecture.

OR

Explain Information Life Cycle management with suitable examples.

Unit - II

2. a) What are the major factors that affect disk drive performance.

    b) What is Parity? Write the advantages of parity.

    c) What are the component of an Intelligent storage system?

    d) What is Hot Spares? What are the methods used for data recovery in hot spares?

OR

Discuss the impact of Random and Sequential I/O in different RAID Configuration.

Unit - III

3. a) What is soft zoning and hard zoning?

    b) What is FC Ports?

    c) Explain client server model of DAS.

    d) How does flow control work in an FC network?

OR

What are the components of SAN? Explain in detail.

Unit - IV

4. a) What are backup topologies?

    b) What is SNMP?

    c) What is disaster recovery? Explain the importance of disaster recovery planning.

    d) Describe the benefits of using a virtual tape library over a physical tape library.

OR

Discuss the security concern in backup environment.

Unit - V

5. a) Differentiate between public, private and hybrid cloud.

    b) What is cloud vocabulary?

    c) Explain the cloud security design principles.

    d) Discuss the different barriers of cloud computing.

OR

Write a brief notes on Cloud Computing infrastructure.

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