Total No. of Questions :5] [Total No. of Printed Pages :2

Roll No ....

MCA-402

MCA IV Semester

Examination, June 2016

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) Define structured and unstructured data?
   b) What is a data proliferation?
   c) What are the essential core elements of a data center?
   d) What is an information lifecycle? Explain benefits of Information Lifecycle Management.

OR

Describe storage technology and architecture evolution with suitable diagram.

Unit - II

2. a) What is Hot Spares?
   b) Explain nested RAID in brief.
   c) Differentiate between RAID 0 and RAID 1.
   d) What is a virtual storage provisioning? Compare virtual storage provisioning with traditional storage provisioning.

OR

Explain the write operation on RAID 5 using suitable diagram.

Unit - III

3. a) Explain the DAS benefits?
   b) Define Zoning?
   c) Explain the types of DAS. Explain any one in details.
   d) What are the factors that affect NAS performance at different levels?

OR

What are the components of SAN? Explain in detail.

Unit - IV

4. a) What is a virtualization?
   b) Draw the diagram of storage virtualization.
   c) Write down the important features of VSAN.
   d) What are the types of storage virtualization? Explain any one using suitable diagram.

OR

What is the purpose of performing operation backup, disaster recovery and archiving?

Unit - V

5. a) Describe private cloud in brief.
   b) Write down the advantages of cloud computing.
   c) Discuss the security issues on cloud storage.
   d) Describe any one cloud service model in detail using suitable diagram.

OR

What are the types of cloud system architecture? Explain multi datacenter architecture using suitable diagram.

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