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

Roll No ....

MCA - 503 (OLD)
MCA V Semester
Examination, December 2014
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.

1. a) What do you understand by Data and Information?
   b) What are the reasons for the growth of digital data?
   c) What do you understand by Structured and Unstructured Data? Explain.
   d) Give a brief note on evolution of various storage technologies.

   OR

   Discuss various phases of information life cycle model.

2. a) Why do formatted disks have less capacity than unformatted disks?
   b) What are the benefits of using multiple HBAs on a host?
   c) What do you understand by "Zoned Bit Recording" and "Logical Block Addressing"?
   d) Discuss the key components of "Disk Drive".

OR

Compare the different types of RAID.

3. a) What do you understand by zoning?
   b) Why is class 3 service most preferred for FC communication?
   c) How is the priority established in a wide SCSI environment?
   d) List and explain the considerations for capacity design for both CPU and storage in a NAS environment.

   OR

   What is Direct Attached Storage (DAS)? Write down its advantages and disadvantages.

4. a) What do you understand by key management metrics?
   b) What are the core element and key requirement for data center elements?
   c) Describe the benefits of using "virtual tap library" over "physical tapes".
   d) What is the purpose of performing operation backup, disaster recovery and archiving?

   OR

   What do VLANs virtualize? Discuss implementation as a virtualization technology.

5. a) What do you understand by cloud computing?
   b) How can you secure data in the cloud?
   c) What are the essential characteristics of "cloud computing"?
   d) Discuss the evolution of cloud computing.

   OR

   Explain the Architectural Framework of cloud computing.

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