

Roll No

MCA-402 (New)

MCA. IV Semester

Examination, December 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

- Write the examples of structured, semi-structured and un structured data types.
 - Explain briefly about the Information Storage.
 - Explain in brief the evolution of Storage Technology.
 - Explain the key characteristics of Data Center Elements.

OR

Explain the Information Life Cycle Management.

Unit - II

- Define Data Transfer Rate.
 - What is Zone Bit Recording?
 - What are the key factors that affect disk drive performance?
 - Explain the concept of RAID levels and their types in detail.

OR

Write in detail about the high level architecture and working of an intelligent storage system.

Unit - III

- Differentiate between Multi-mode fibre and Single-mode fibre.
 - What are the key benefits of Network-Attached Storage (NAS)?
 - Write the components of IP-SAN.
 - Explain in detail the different FC Topologies.

OR

Explain in detail about the evolution of Network Architecture, components and topologies.

Unit - IV

- Explain briefly about Backup Technologies.
 - Write the different modes of remote replication.
 - Write short note about Virtual Tape Library.
 - Define Virtualization Technologies and write about the virtualization technologies and processes.

OR

How can a block-level virtualization implementation be used as a data migration tool? And also explain how data migration will be accomplished.

Unit - V

- Explain in brief about services on cloud.
 - What do you mean by "Storage on cloud"?
 - Write the key characteristics of cloud.
 - Explain the key challenges to consumer in adopting a public cloud.

OR

Explain the cloud computing security challenges.
