

**M. TECH. –III (COMPUTER ENGINEERING) (CBCS – 2015
COURSE) : SUMMER - 2018**

SUBJECT: ELECTIVE – I B) INFORMATION STORAGE MANAGEMENT

Day: **Tuesday**
Date: **29/05/2018**

S-2018-3045

Time: **11.00 AM TO 02.00 PM**
Max Marks. 60

N.B

- 1) All questions are **COMPULSORY**
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION - I

Q.1 Describe in detail ILM implementation along with its benefits. **(10)**

OR

Q.1 Define Information storage. Explain in detail the Data Center Infrastructure and the key requirements for Data Center elements. **(10)**

Q.2 What is an HBA? What are the benefits of using multiple HBA's on host? Illustrate with an example. **(10)**

OR

Q.2 Describe in detail the impact of random and sequential I/O in different RAID configurations. **(10)**

Q.3 List and explain in detail the considerations for capacity design for both CPU and storage in a NAS environment. **(10)**

OR

Q.3 Explain in detail the CAS architecture and the features that are essential part of any CAS solution. **(10)**

SECTION - II

Q.4 How does clustering help to minimize the RTO? Explain with an example. **(10)**

OR

Q.4 What are the considerations for performing backup from a local replica? Explain in detail the importance of recoverability & consistency in local replication? **(10)**

Q.5 Explain in detail the SNMP architecture, also describe the management of storage network with SNMP. **(10)**

OR

Q.5 What is CIM? Explain in detail the modelling of management environment with CIM. **(10)**

Q.6 Explain in detail cloud computing? Describe the various service architecture provided by the cloud. **(10)**

OR

Q.6 Describe how cloud evolved? With neat diagram describe the cloud storage reference model. **(10)**

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