Code: 13A12802

R13

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2017

INFORMATION STORAGE & MANAGEMENT
(Information Technology)

Time: 3 hours   Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a)   List the storage architectures in the order of their evolution.
   (b)   What is data proliferation?
   (c)   What is hot sparing?
   (d)   Differentiate between logical and physical disk.
   (e)   Explain the difference between FCIP and ISCSI.
   (f)   What is an accurate statement about gateway NAS solution?
   (g)   Differentiate between RPO and RTO.
   (h)   List the key management metrics for networked storage.
   (i)   Define storage security domain.
   (j)   What are the key benefits of virtualization?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   (a)   Describe in detail various characteristics needed for an ILM strategy.
     (b)   Explain the key requirements for data centre elements in detail.
OR
3   (a)   Explain the various storage infrastructure components in detail.
     (b)   What is information life cycle? Discuss the key challenges in managing information.

UNIT – II

4   Explain any five RAID levels with diagram.
OR
5   With neat diagram, explain the process of mapping user files to disk storage.

UNIT – III

6   With a neat sketch, explain the components of network attached storage. Also discuss its implementation details.
OR
7   Explain data object storage process and process of data retrieval from CAS system with diagram.

UNIT – IV

8   Describe the physical and logical / software configuration management for SAN's.
OR
9   Draw and explain business continuity planning life cycle.

UNIT – V

10   Explain storage security domains with reference to threats, availability controls with examples.
OR
11   Differentiate storage virtualization in server and network level.

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