15CS754

Seventh Semester B.E. Degree Examination, June/July 2019
Storage Area Networks

Time: 3 hrs.   Max. Marks: 80

Note: *Answer any FIVE full questions, choosing*
ONE full question from each module.

Module-1

1 a. What is a data center? List the core components of data center. Explain the characteristics of data center. **(08 Marks)**
   b. Discuss volume manager and compute virtualization in detail. **(08 Marks)**

OR

2 a. Differentiate between software and hardware RAID. Illustrate how parity method is used for RAID levels. **(08 Marks)**
   b. With a neat diagram explain ISS. Explain in detail the cache component of ISS. **(08 Marks)**

Module-2

3 a. List and explain different FC connectivity options with a neat diagram. **(08 Marks)**
   b. With diagram explain ISCSI implementation. **(08 Marks)**

OR

4 a. What is NAS? Explain NAS implementation in detail. **(08 Marks)**
   b. List the key features of Content Addressed Storage (CAS). Illustrate with a neat block diagram the unified storage for CAS system. **(08 Marks)**

Module-3

5 a. Explain with a neat diagram BC planning lifecycle. **(08 Marks)**
   b. Mention backup topologies. List various backup forget solution and explain any one with a neat diagram. **(08 Marks)**

OR

6 a. List various uses of local replication. Explain storage array based local replication with a neat diagram. **(08 Marks)**
   b. Differentiate between Synchronous and Asynchronous based remote replication model. **(08 Marks)**

Module-4

7 a. List various cloud computing characteristics. Explain the cloud computing infrastructure components with a neat diagram. **(08 Marks)**
   b. With diagram explain different cloud deployment models. **(08 Marks)**

OR

8 Explain in detail in band and out of band virtualization appliances with a neat diagram. **(16 Marks)**

Module-5

9 a. What are the different rules tried for information security? Explain in detail FCSAN based security implementation. **(08 Marks)**
   b. List and explain different storage infrastructure management activities in detail. **(08 Marks)**

OR

10 a. Explain different storage management activities. **(08 Marks)**
    b. What is ILM? List and explain various benefits of ILM. **(08 Marks)**