Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020
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. Explain with neat diagram the Evolution of storage Architecture. **(06 Marks)**
b. Discuss core Elements of Data center and key characteristics of Data center. **(10 Marks)**

OR

2 a. Describe with neat block diagram the components of Intelligent storage system. **(08 Marks)**
b. With diagram explain different RAID Techniques. **(08 Marks)**

Module-2

3 a. Explain with neat diagram the components of Fiber Channels (FC) storage Area Networks. **(08 Marks)**
b. What is zoning? Explain its types. **(08 Marks)**

OR

4 a. Discuss different iSCSI Topologies with neat diagrams. **(08 Marks)**
b. Write short notes on Fiber Channel Over Ethernet (FCOE). **(08 Marks)**

Module-3

5 a. Discuss different back up Topologies. **(08 Marks)**
b. What is data deduplication ? Explain its implementation methods. **(08 Marks)**

OR

6 a. Explain local Replication technology using Host based methods. **(06 Marks)**
b. Write a short notes on the following ;
i) Three site Replications ii) Network based Remote Replication. **(10 Marks)**

Module-4

7 a. Explain the characteristics of clouds computing. **(04 Marks)**
b. Discuss cloud Deployment models. **(06 Marks)**
c. Explain Cloud computing Infrastructure. **(06 Marks)**

OR

8 a. Discuss the steps involved in transitioning from classic data center to cloud computing Environment service. **(08 Marks)**
b. Write a short notes on the following :
i) Business drives for cloud computing
ii) Cloud migration considerations. **(08 Marks)**

Module-5

9 a. Explain the different types of security threats. **(06 Marks)**
b. Discuss security solutions for FC – SAN and IP-SAN. **(10 Marks)**

OR

10 a. Explain the various information infrastructure components in classic and virtual Environments. **(08 Marks)**
b. Write a short notes on the following :
i) Information Life Cycle Management (ILM). ii) Storage Tiering. **(08 Marks)**