CBCS SCHEME

USN | | | | | | | | | |

15CS754

Seventh Semester B.E. Degree Examination, Aug./Sept.2020
Storage Area Networks

Time: 3 hrs. Max. Marks: 80

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

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Explain the key characteristics of a data center, with a neat diagram. **(08 Marks)**

b. With a neat diagram, explain the structure of read and write operations in cache. **(08 Marks)**

OR

2 a. List the different RAID levels where parity technique has been adopted. Explain any three. **(10 Marks)**

b. Compare virtual and traditional storage provisioning. **(06 Marks)**

Module-2

3 a. What is zoning? What are the advantages of zoning? Explain the various types of zoning. **(08 Marks)**

b. Write a note on iSCSI. **(08 Marks)**

OR

4 a. Explain the fibre channel Protocol stack with neat figure. **(08 Marks)**

b. Explain I/O consolidation using FCoE. **(08 Marks)**

CMRIT LIBRARY
BANGALORE - 560 037

Module-3

5 a. Define the following terminologies:
i) MTBF ii) RPO iii) MTTR iv) RTO. **(08 Marks)**

b. Describe the failure analysis in BC. Mention some important BC technology solutions. **(08 Marks)**

OR

6 a. Explain backup and restore operations with neat diagram. **(08 Marks)**

b. Explain Backup in virtualized environments. **(08 Marks)**

Module-4

7 a. Define cloud computing. List and explain the essential characteristics of cloud computing. **(06 Marks)**

b. Classify the deployment models in cloud computing. Explain any two. **(10 Marks)**

OR

8 a. List and explain the challenges facing in cloud-computing. **(06 Marks)**

b. Explain cloud infrastructure layers, with diagram. **(10 Marks)**

Module-5

9 a. Write a note on: i) Risk triad ii) Threats **(08 Marks)**

b. Explain the concept of Kerberos with neat diagram. **(08 Marks)**

OR

10 a. Discuss the IPSAN security implementation in storage networking. **(06 Marks)**

b. Explain the storage infrastructure management activities in detail with example. **(10 Marks)**

* * * * *