# CBCS SCHEME

USN 15CS754

# Storage Area Networks

Time: 3 hrs. Max. Marks: 80

Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020

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

# Module-1

a. Explain with neat diagram the Evolution of storage Architecture.
 b. Discuss core Elements of Data center and key characteristics of Data center.
 (06 Marks)
 (10 Marks)

# OR

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

# Module-2

a. Explain with neat diagram the components of Fiber Channels (FC) storage Area Networks.
 (08 Marks)

What is zoning? Explain its types. (08 Marks)

#### OF

4 a. Discuss different iSCSI Topologies with neat diagrams.

b. Write short notes on Fiber Channel Over Ethernet (FCOE). (08 Marks)

#### Module-3

5 a. Discuss different back up Topologies. (08 Marks)

. What is data deduplication? Explain its implementation methods. (08 Marks)

# OR

a. Explain local Replication technology using Host based methods.
 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.
b. Discuss cloud Deployment models.
c. Explain Cloud computing Infrastructure.
(06 Marks)

# OR

 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)

that 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 for equations written eg. 42+8 – 50, will be treated as malpractive.