# GBCS SCHEME

15CS754 USN

## 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

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

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

### Module-2

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

- 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

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

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

### Module-4

- 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.

Explain in detail in band and out of band virtualization appliances with a neat diagram.

### (16 Marks)

(08 Marks)

### Module-5

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

- Explain different storage management activities. (08 Marks)

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.