



CBCS SCHEME

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18MCA554

Fifth Semester MCA Degree Examination, Feb./Mar. 2022

Storage Area Networks

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Define data. Explain the different types of data. (05 Marks)
- b. Describe the ILM implementation in detail. (05 Marks)
- c. List and explain the essential core elements for the basic functionality of data center. (10 Marks)

OR

- 2 a. Briefly explain the evolution of storage technology. (10 Marks)
- b. Explain disk drive components, with suitable diagram. (10 Marks)

Module-2

- 3 a. What is RAID? Explain the RAID levels with reference to nested RAID, RAID3, RAID5 with neat diagram. (10 Marks)
- b. Describe the components of intelligent storage system. (10 Marks)

OR

- 4 a. Explain the different types of Intelligent Storage Array System. (10 Marks)
- b. Mention and explain types of DAS. (10 Marks)

Module-3

- 5 a. Briefly explain Disk Drive interface with example. (10 Marks)
- b. Explain connectivity options of FC architecture with relevant diagram. (10 Marks)

OR

- 6 a. Discuss different types of FC ports. (10 Marks)
- b. With neat diagram, explain SCSI-3 Architecture. (10 Marks)

Module-4

- 7 a. Explain the benefits of NAS. (10 Marks)
- b. Discuss the NAS file sharing protocols. (10 Marks)

OR

- 8 a. Briefly explain iSCSI protocol stack. (10 Marks)
- b. Describe storage virtualization in detail and discuss its challenges. (10 Marks)

Module-5

- 9 a. What is Business continuity? Explain its Terminology. (10 Marks)
- b. Explain Back up and restore operations in detail. (10 Marks)

OR

- 10 a. Explain with neat diagram BC planning life cycle. (10 Marks)
- b. Write short notes on:
 - (i) Synchronous Replication Mode
 - (ii) Asynchronous Replication Mode(10 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.