

CBCS SCHEME

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15CS754

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

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

OR

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

Module-2

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

OR

- 4 a. 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

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

OR

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

Module-4

- 7 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. (08 Marks)

OR

- 8 Explain in detail in band and out of band virtualization appliances with a neat diagram. (16 Marks)

Module-5

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

OR

- 10 a. Explain different storage management activities. (08 Marks)
b. What is ILM? List and explain various benefits of ILM. (08 Marks)

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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.