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15CS754

Seventh Semester B.E. Degree Examination, Jan./Feb.2021 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. Explain evolution of storage architecture with neat diagram. (08 Marks)
b. Discuss the key characteristics of a data centre, with neat diagram. (08 Marks)

OR

- 2 a. What is protocol? Explain the popular interface protocols used for host to storage communications. (08 Marks)
b. Explain two different types of intelligent storage systems. (08 Marks)

Module-2

- 3 a. Explain Fibre channel protocol stack with neat diagram. (08 Marks)
b. What is zoning? Explain its types. (08 Marks)

OR

- 4 a. What is FCIP? Explain FCIP protocol stack. (08 Marks)
b. What is NAS? Explain its components with neat sketch. (08 Marks)

Module-3

- 5 a. Explain any two backup topologies with neat diagram. (08 Marks)
b. Discuss Data Deduplication implementations. (08 Marks)

OR

- 6 a. Give different uses of local replicas. (08 Marks)
b. Explain remote replication technologies. (08 Marks)

Module-4

- 7 a. What is cloud computing? Give its characteristics. (08 Marks)
b. Explain different cloud service models. (08 Marks)

OR

- 8 a. Explain various cloud deployment models. (08 Marks)
b. Discuss cloud challenges. (08 Marks)

Module-5

- 9 a. Explain storage security domains. (08 Marks)
b. Explain various security measures of cloud environment. (08 Marks)

OR

- 10 a. Explain various storage infrastructure management activities. (08 Marks)
b. Explain information lifecycle management. (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.