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Future Vision

By K B Hemanth Raj

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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.