

Storage Area Network VTU CBCS Question Paper Set 2018

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10CS/IS765

Seventh Semester B.E. Degree Examination, Dec. 2013/Jan. 2014
Storage Area Network

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1 a. Explain the architecture and evolution of storage technology, with diagram. (05 Marks)
b. Describe ILM implementation in detail, with its benefits. (05 Marks)
c. Explain disk drive components. with suitable diagram. (10 Marks)
- 2 a. Describe RAID levels with reference to nested RAID, RAID3 and RAID5, with neat diagram. (10 Marks)
b. Explain the components of ISS with reference to LUN and LUN masking, with diagram. (05 Marks)
c. Discuss intelligent storage array, in detail. (05 Marks)
- 3 a. Explain disk drive interface, with diagram. (05 Marks)
b. Describe SCSI – 3 architecture, in detail. (05 Marks)
c. Explain FC connectivity with related diagrams. (10 Marks)
- 4 a. Describe NAS implementations and benefits, with a neat diagram. (10 Marks)
b. Explain ISCSI connecting topologies with a suitable diagram. (05 Marks)
c. Describe FCIP in detail. (05 Marks)

PART – B

- 5 a. Explain object storage and retrieval in CAS, with suitable diagrams. (10 Marks)
b. Describe storage virtualization types in detail and discuss its challenges. (10 Marks)
- 6 a. Describe the failure analysis in BC. Mention some important BC technology solution. (10 Marks)
b. Explain back up topologies, in detail. (10 Marks)
- 7 a. Explain local replication technologies, in detail. (10 Marks)
b. Explain the various remote replication modes. (05 Marks)
c. Write a note on DWDM. (05 Marks)
- 8 a. Explain the security attributes of storage security frame works. (04 Marks)
b. Describe SAN security architecture with diagram. (06 Marks)
c. Describe storage management activities in detail, with example. (10 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.