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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.