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10SCS322

Third Semester M.Tech. Degree Examination, December 2012
Advances in Storage Area Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Mention the two types of It architectures. Bring out its limitations and advantages. Briefly explain each of them. (08 Marks)
b. Explain the case study of “Replacing a server with storage networks”. (08 Marks)
c. Why storage networking makes sense? Mention the two benefits of storage networks on business applications. (04 Marks)
- 2 Compare and explain the different RAID levels. (20 Marks)
- 3 a. Mention the design goals of fibre channel that are correct by the requirements of transmission technology for storage networks? Explain the fibre channel protocol stack. (14 Marks)
b. Explain the “Arbitrated loop topology” of fibre channel SAN, in detail. (06 Marks)
- 4 a. Explain the NAS architecture. (10 Marks)
b. Compare sanprhots and instant copy. Explain the volume manger, in detail. (10 Marks)
- 5 a. Define the term “storage virtualization”. Explain the two models of storage virtualization in the network. (10 Marks)
b. List the three levels at which a virtualization entity can be positioned in the storage network explain them. (10 Marks)
- 6 Mention the SAN components. Explain them in detail. (20 Marks)
- 7 a. Explain the switch operating system of SAN. (08 Marks)
b. List the supporting components of switch operating system explain any two, in detail. (12 Marks)
- 8 a. Define “Intrusion detection system”. List and explain the different security elements that must be addressed by any secure solution. (14 Marks)
b. Discuss the role of storage networking in business continuity. (06 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.