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**Fifth Semester MCA Degree Examination, Dec.2016/Jan.2017**  
**Storage Area Networks**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Explain the core elements of data centre and illustrate their functionality in a business process. (10 Marks)  
b. Explain the disk drive components with their working. (10 Marks)
- 2 a. Explain the different basis used for defining different RAID levels with neat diagrams. (10 Marks)  
b. Define cache. Explain the structure of cache. Also explain READ and WRITE operations with cache. (10 Marks)
- 3 a. Define DAS. Specify the benefits and the limitations of DAS. Also explain the classifications of DAS. (10 Marks)  
b. Explain the different Fibre channel ports. (10 Marks)
- 4 a. Explain the different NAS file – sharing protocols. (10 Marks)  
b. Explain the different factors affecting NAS performance and availability. (10 Marks)
- 5 a. Explain the architecture of CAS. Also explain CAS features and their options. (10 Marks)  
b. Explain memory and network virtualization concepts. (10 Marks)
- 6 a. Explain the BC planning life cycle. (10 Marks)  
b. Explain Back-up process with neat diagram. (10 Marks)
- 7 a. Explain LVM based local replications with their advantages and disadvantages. (10 Marks)  
b. Explain DWDM and SONET. (10 Marks)
- 8 a. List the different security zones and explain their protection strategies. (10 Marks)  
b. Explain the different storage management activities. (10 Marks)

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