[4760]- 1196

M.E. (Computer Engineering)

ADVANCED STORAGE SYSTEMS AND INFRASTRUCTURE MANAGEMENT

(2013 Pattern) (Semester - III)

Time : 3 Hours]   *[Max Marks :50*

Instructions to the candidates:

   1)   *Attempt any five questions.*

   2)   *Neat diagrams must be drawn wherever necessary.*

   3)   *Figures to the right side indicate full marks.*

Q1) a)   Which components constitute the disk service time? Which component contributes the largest percentage of the disk service time in a random I/O operation?   **[5]**

    b)   Explain the process of data recovery in case of a drive failure in RAID.**[5]**

Q2) a)   Explain integrated implementations and Gateway implementations mechanism of NAS?   **[5]**

    b)   What are the different files sharing protocols used in NAS? Compare NFS and CIFS.   **[5]**

Q3) a)   What are the basic topologies used in a back-up environment?   **[5]**

    b)   What is de duplication? Explain in detail.   **[5]**

Q4) a)   Write short note on the IT systems issues and business demands?   **[5]**

    b)   What are the various Infrastructure management activities?   **[5]**

Q5) a) Write short note on Design of I.T. Infrastructure. **[4]**

b) Explain with neat diagram Information Technology Infrastructure Library. **[6]**

Q6) a) Explain various important factors that should be managed in Service delivery process? **[5]**

b) Explain the following terms: **[5]**

a) Service level Management

b) Financial Management and Costing

c) Availability Management

d) Configuration Management

e) Tools and thier Integration

❍❍❍