[4960] - 1313
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)   What is an Intelligent Storage System (ISS)? Describe components of intelligent storage system. Which components of ISS Interacts with Physical disks? **[5]**

    b)   Consider an application that generates 8,400 IOPS, with 70 percent of them are reads. Calculate the disk load in RAID 1 and RAID 5. Also determine the number of disks required to meet the workload for the RAID 1 and RAID 5 configuration. **[5]**

Q2) a)   Explain different components of FCoE Network? **[5]**

    b)   Explain in detail Content Addressed Storage (CAS) architecture. Explain the storage and retrieval operation in detail. **[5]**

Q3) a)   What are various Local replication technologies? Explain their operation. **[5]**

    b)   Explain consequences of downtime in brief. **[5]**

Q4) a) What is a scope of change management? **[5]**

b) What are the different key areas involved in complexity of today's computing environment   . **[5]**

Q5) a) Explain the infrastructure management pattern for IT system management. **[5]**

b) Write short note on Information Technology Infrastructure Library (ITIL) **[5]**

Q6) a) What are the immediate benefits of implementing SLM processes? **[5]**

b) Write short note on: **[5]**

   i)   Capacity management

   ii) Availability management