

Total No. of Questions :6]

SEAT No. :

P4642

[Total No. of Pages : 2

[5355] - 228

M.E. (Computer Engineering)

**ADVANCED STORAGE SYSTEMS AND INFRASTRUCTURE
MANAGEMENT**

(2013 Pattern) (Semester - III) (610101)

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) Explain why **[5]**
- i) RAFD 1 is not a substitute for a backup?
 - ii) RAID 0 is not an option for data protection and high availability?
- b) Which components constitute the disk service time? Which components constitute the largest percentage of the disk service time in a random I/o operation? **[5]**
- Q2)** a) Explain integrated implementations and Gateway implementations mechanism of NAS? **[5]**
- b) What are the different types of storage virtualizations? What are the important challenges in storage virtualization? **[5]**
- Q3)** a) What are different Local Replication technologies? Explain any one in detail. **[5]**
- b) Explain the concept of Recovery-point-objective (RPO) and Recovery-time-objective (RTO). **[5]**
- Q4)** a) Write short note on value of systems management for business. **[5]**
- b) What are various infrastructure management activities? Discuss. **[5]**

P.T.O.

- Q5)** a) Discuss Information Technology Infrastructure Library. [5]
b) Explain infrastructure management pattern for IT systems management. [5]
- Q6)** a) Discuss financial management and costing. [5]
b) Write short note on : [5]
i) Configuration management
ii) Availability management

