

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject code: 2725105

Date: 23-06-2014

Subject Name: Storage Area Network

Time: 02:30 pm - 05:00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a)** Write a short note on : Data Centre Cluster **07**
(b) Compare merits and demerits of NAS and SAN **07**

- Q.2 (a)** How many ways SAN has changed Information Processing? Explain each one in brief. **07**
(b) Explain Fibre channel topologies. **07**

OR

- (b)** Explain the Fibre channel layered architecture. **07**

- Q.3 (a)** Compare the merits and demerits of synchronous and asynchronous replication **07**
(b) Write a short note on : Mirroring **07**

OR

- Q.3 (a)** Explain types of data replication techniques. **07**
(b) Explain the central metadata cluster file system. **07**

- Q.4 (a)** Explain the NAS hardware architecture. **07**
(b) Explain the NAS software architecture. **07**

OR

- Q.4 (a)** Explain the SAN hardware architecture. **07**
Q.4 (b) Explain the SAN software architecture. **07**

- Q.5 (a)** Explain in brief with respect to SAN : (i) Cascading Configuration (ii) Meshed Configuration **07**
(b) Explain in brief with respect to NAS : (i) Appliance/Departmental Configuration (ii) Enterprise/Data Centre Configuration **07**

OR

- Q.5 (a)** Explain in brief the network management tasks with respect to SAN **07**
(b) Explain in brief the storage management tasks with respect to SAN **07**
