Total No. of Pages : 2

Seat No.	

T.E. (C.S.E.) (Part - III) (Semester - VI) (New) Examination, November - 2019
STORAGE NETWORKS
Sub. Code : 66861

Day and Date : Tuesday, 19 - 11 - 2019 **Total Marks : 100**
Time : 10.00 a.m. to 1.00 p.m.

Instructions :
1) **Question No.4 and 8 is compulsory.**
2) **Attempt any two questions from question no. 1, 2 and 3.**
3) **Attempt any two questions from question no. 5, 6 and 7.**
4) **Figures to the right indicate full marks.**

Q1) a) Explain different Components of an Intelligent Storage System. **[8]**

b) Explain SCSI Command Model. **[8]**

Q2) a) Explain Fibre Channel Protocol Stack with diagram. **[8]**

b) Explain FC-2: data transfer. **[8]**

Q3) a) Explain the different components of NAS. **[8]**

b) Explain NAS I/O Operations with diagram. **[8]**

Q4) Write a short notes on (Any Three). **[3×6=18]**

a) Data Center Core Elements.

b) RAID Level 3

c) iSCSI Protocol Stack.

d) NAS File-Sharing Protocols.

Q5) a) Explain Symmetric storage virtualization with advantages and disadvantages. **[8]**

b) Explain Storage virtualization in the server with advantages and disadvantages. **[8]**

P.T.O.

Q6) a) Explain Failure Analysis with suitable example. **[8]**

b) Explain Backup Topologies. **[8]**

Q7) a) What is Local Replication? Explain uses of Local Replicas. **[8]**

b) Explain Host-Based Local Replication. **[8]**

Q8) Write a short notes on (Any Three). **[3×6=18]**

a) Information Availability.

b) Backup Process.

c) Storage Virtualization.

d) Storage Security Framework.