# JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
## TEST-2 EXAMINATION (APRIL 2018)
### B-Tech (8$^{TH}$ SEM)

Course Code: 11B1WCI835

Course Name: STORAGE NETWORKS

Course Credit: 3

Max. Marks: 25

Max. Time: 1 HRS 30 MIN.

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**Note: All questions are compulsory.**

**Q1.**

a) What are the various versions of SCSI? Compare them w.r.t MB/sec, Bus Width and Max no. of devices. **[1+2]**

b) Explain the role and necessity of Fibre channel in building of SAN. **[2]**

**Q2.**

a) What are the various layers constitutes the Fibre channel protocol stack. Explain the various common services provided by upper layer protocol. **[1+2]**

b) List the various types of nodes used in Fibre channel. Explain the role of ports used in servers and switches. **[1+2]**

**Q3.**

a) What is the role of frame in fibre channel? Compare the frame structure with transmission words in a frame. **[2+2]**

b) Why Zoning is required in storage network? In what ways it can be implemented. **[2+2]**

**Q4.**

a) Explain the role of command descriptor block and protocol data unit in iSCSI. In what way execution of iSCSI is different with iFCP. **[2+2]**

b) **Differentiate between:** **[1+1]**
   - Serial transfer vs. Parallel transfer of data
   - WWN and 24-bit Port address