JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-1 EXAMINATION (FEB 2019)
B-Tech (8TH SEM)

Course Code: 11B1WCI835

Course Name: STORAGE NETWORKS

Course Credit: 3

Max. Marks: 15

Max. Time: 1 HRS

Note: All questions are compulsory.

Q1.

    a. What is Data proliferation and disadvantages of it? Provide the solution to come over from it. **[2]**

    b. Discuss and design the following RAID levels: **[3]**

        a) RAID 501

        b) RAID 20

        c) RAID 16

Q2.

    a. Design the architecture of RAID controller based disk subsystem? Which I/O channel provides the both fault tolerance and performance in case of failure and accessing of data respectively? **[2]**

    b. List the various functions of intelligent disk sub systems. Discuss any one in detail and also support your answer with example(s). **[2]**

Q3. How SCSI protocol support the storage area network? List the various types of IDs introduced by SCSI protocol. How do you assign the priority to the various target devices? **[3]**

Q4. Design the Fibre channel protocol stack? Discuss the role of each layer in it. **[3]**