# JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
## TEST-1 EXAMINATION (FEB 2018)
### B-Tech (8$^{TH}$ SEM)

Course Code: 11B17CI271          Max. Marks: 15

Course Name: STORAGE NETWORKS      Max. Time: 1 HRS

Course Credit: 3

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**Note: All questions are compulsory.**

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**Q1.**

    a. Explain the role of RAID controller in implementation of RAID levels? How the term virtualization is associated with RAID controller? **[2]**

    b. Design the following RAID levels:     **(ANY TWO)**     **[3]**

        a) RAID 100

        b) RAID 51

        c) RAID 6

**Q2.**

    a. What are the various phases of Information lifecycle management? Discuss them with suitable example? **[2]**

    b. What refers the term "unprecedented amount of data"? What are the various problems caused by it? Propose solutions for these problems. **[2]**

**Q3.** What are the various disadvantages of server centric architecture? How do you overcome from these disadvantages? **[3]**

**Q4.** Discuss the typical architecture of Disk-subsystem. List the various categories of disk-subsystems. What are the various I/O cabling techniques used inside it to provide performance and fault tolerance? **[3]**