**Register No:**

**Date:**

**St. Joseph’s College (Autonomous), Bangalore**

**IV Semester Examination, April 2017**

**M.Sc Computer Science**

**CS 0415 : Data Storage Technologies**

**Time 2.5 Hrs Max Marks 70**

**This paper contains 1 printed pages and 1 part**

**PART-A**

**Answer any SEVEN questions 10 x7 = 70**

1. Explain all the key characteristics of a data center.
2. Explain the various factors that affect the disk drive performance.
3. a) Explain the two RAID implementation methods. 7 marks

 b) Explain Hot spares in detail. 3 marks

4. Explain in detail about traditional and virtual storage provisioning.

5. Explain types of Intelligent Storage Systems.

6. Explain the components of FCSAN with a neat diagram.

7. Explain iSCSI and its topologies.

8. Write a note on benefits of NAS.

9. Explain the components of NAS with a neat diagram.