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| **col LOGO outline**Registered Number:DATE: **14** **-04-2018 (1PM)****ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27** |
| **MSc (COMPUTER SCIENCE) IV SEMESTER** |
| **SEMESTER EXAMINATION: APRIL 2018** |
| **CS 0415 Data Storage Technologies** |
|  |  |  |  |  |  |
| **Time- 2 1/2 hrs** |  | **Max Marks-70** |
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| **This paper contains one printed page and one part.****Answer any seven questions:**1. A) Explain the evolution of storage architecture . **5**

B) Explain the core elements of data center. **5** 1. Explain the different components of disk drive which affect the

disk performance and also explain how they affect the performance. **10** 1. A) Explain the different RAID techniques which helps us to

recover the data in case of disk failure. **5** B)Compare and contrast RAID 01 and RAID 10 also explain which RAID is better among the two and why? **5**1. Explain

A) Read Hit and Read Miss. **4**  B) Explain storage virtualization in detail. **6**1. Explain the two types of Intelligent storage systems in detail. **10**
2. Explain FC connectivity in detail. **10**
3. A) Explain disaster recovery principles **5**

B) Explain key management metrics in business continuity **5**1. Explain FCIP protocol stack and FCIP topology. **10**
2. Explain the three types of NAS implementation

 and their connectivity. **10** |
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