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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** | | | | | | |
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| **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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