Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14CS3023** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INFORMATION STORAGE MANAGEMENT** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Outline the various factors that affect the performance of disk drives. | CO2 | 10 |
| b. | Summarize the logical components of the host. | CO4 | 10 |
| **(OR)** | | | | |
| 2. |  | Describe the RAID technology, RAID levels and different types of RAID implementations and their benefits. | CO4 | 20 |
|  |  |  |  |  |
| 3. | a. | NAS is an IP-based file-sharing device attached to a local area network. Point out its components and outline the two types of NAS implementations. | CO2 | 10 |
| b. | Describe the SCSI-3 architecture. | CO2 | 10 |
| **(OR)** | | | | |
| 4. |  | With neat diagrams, illustrate the components of an intelligent storage system. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | With neat diagrams, explain the process of storing and retrieving objects in CAS. | CO1 | 20 |
| **(OR)** | | | | |
| 6. |  | The IT department of a departmental store uses a tape to archive data. Point out how you would persuade the IT department to move to a CAS solution. State how object storage and retrieval happens in CAS. | CO2 | 20 |
|  |  |  |  |  |
| 7. | a. | Interpret the Host based local replication technology. | CO3 | 10 |
| b. | Illustrate the Back up and restore operations. | CO3 | 10 |
| **(OR)** | | | | |
| 8. | a. | Business Continuity (BC) is an integrated and enterprisewide process that includes all activities. Outline the BC planning lifecycle. | CO5 | 10 |
| b. | Failure analysis involves analyzing the data center to identify systems that are susceptible. Highlight on single point of failure and fault tolerance. | CO5 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Monitoring helps to analyze the status and utilization of various storage infrastructure components. Present the components that needs to monitored in a storage infrastructure. | CO6 | 10 |
| b. | Describe the various modes of storage array based remote replication. | CO3 | 10 |