|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Roll No |  |  |  |  |  |  |  |  |  |  |  |

PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

MAKE UP EXAMINATION - JULY 2024

|  |  |
| --- | --- |
| **Semester : V** | **Date : 02/07/2024** |
| **Course Code :CSE2054** | **Time : 9.30 PM TO 12.30PM** |
| **Course Name :Storage Area Networks** | **Max Marks :100** |
| **Program :Btech** | **Weightage :50%** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts.*
3. *Scientific and non-programmable calculator are permitted.*
4. *Do not write any information on the question paper other than Roll Number.*

|  |  |  |  |
| --- | --- | --- | --- |
| **PART A** | | | |
| **ANSWER ANY 4 QUESTIONS 4Q X 5M=20M** | | | |
| 1 | What is Data Center? Explain the key characteristics of Data Center with a neat diagram. | (CO 1) | [Knowledge] |
|  | | | |
| 2 | Explain the evolution of storage architecture with a neat diagram. | (CO1) | [Knowledge] |
|  | | | |
| 3 | Explain the types of intelligent storage systems. | (CO2) | [Knowledge] |
|  | | | |
| 4 | Explain the components of intelligent storage systems. | (CO2) | [Knowledge] |
|  | | | |
| 5 | Describe the benefits of OSD. | (CO3) | [Knowledge] |
|  | | | |
| 6 | Describe the uses of local replication in detail. | (CO4) | [Knowledge] |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **PART B** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 10M=50M** | | | |
| 7 | Explain in detail disk drive components with suitable diagram. | (CO1) | [Comprehension] |
|  | | | |
| 8 | List the different RAID levels where parity technique has been adopted. Explain any three | (CO2) | [Comprehension] |
|  | | | |
| 9 | Explain structure of cache with operation. | (CO2) | [Comprehension] |
|  | | | |
| 10 | List the features of CAS. | (CO3) | [Comprehension] |
|  | | | |
| 11 | Illustrate Object Based Storage architecture. | (CO3) | [Comprehension] |
|  | | | |
| 12 | Discuss the life cycle of BC planning. | (CO4) | [Comprehension] |
|  |  |  |  |
| 13 | Describe the backup and restore operations. | (CO4) | [Comprehension] |
|  | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **PART C** | | | |
| **ANSWER ANY 2 QUESTIONS 2Q X 15M=30M** | | | |
| 14 | Explain host based remote replication with neat diagram. | (CO3) | [Application] |
|  | | | |
| 15 | What is RAID? Explain RAID levels with reference to RAID,RAID3 and RAID5 with neat diagram. | (CO4) | [Application] |
|  | | | |
| 16 | Discuss different backup topologies. | (CO4) | [Application] |
|  | | | |
|  | | | |