

Reg. No.

Question Paper Code

11626

M.E. - DEGREE EXAMINATIONS, NOV/DEC 2022

Third Semester

M.E. - Computer Science and Engineering

20PCNEL308 - INFORMATION STORAGE MANAGEMENT

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|--|-------------------------------|
| 1. Define Big data. | 2, K1, CO1 |
| 2. How to understand the value of data to support business. | 2, K1, CO1 |
| 3. List out the key components of a hard disk drive. | 2, K2, CO2 |
| 4. Identify the components of an Intelligent Storage System. | 2, K2, CO2 |
| 5. Define Storage area networks. | 2, K1, CO3 |
| 6. Discuss the role of CAS. | 2, K2, CO3 |
| 7. State the difference between RTO and RPO. | 2, K1, CO4 |
| 8. Identify the key areas to monitor in a data center. | 2, K2, CO4 |
| 9. What are the critical security attributes? | 2, K1, CO5 |
| 10. List out the common threats in storage security domain. | 2, K2, CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain in detail about the challenges in data storage and data management. 13, K2, CO1
- OR**
- b) Explain in detail about the role of each core element of data centre infrastructure in supporting business activities. 13, K2, CO1
12. a) Describe about the Physical and Logical components of a connectivity environment. 13, K2, CO2
- OR**
- b) Illustrate the concept and components of RAID and also explain the different levels in RAID with necessary diagrams. 13, K3, CO2
13. a) Describe about FC SAN Topologies in detail. 13, K2, CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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OR

b) Explain about the different networked storage options with necessary diagrams. *13,K2,CO3*

14. a) Give a detailed account on Architecture of Backup/Recovery of data. *13,K2,CO4*

OR

b) Describe about the Industry standards for Data center monitoring and management. *13,K2,CO4*

15. a) Explain in detail about Information security. *13,K2,CO5*

OR

b) Describe about Block-level and File-level virtualization technologies with necessary diagrams. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) List and analyze the functions of different storage security domains *15,K3,CO6*

OR

b) Explain in detail about SAN security architecture. *15,K2,CO6*