

Reg. No

Name

26U668

B C A DEGREE END SEMESTER EXAMINATION - MARCH 2026

SEMESTER 6 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY

COURSE : 19U6VCBCA5 : FUNDAMENTALS OF STORAGE

(For Regular 2023 Admission and Supplementary 2022/2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 75

PART A

Answer All (1 mark each)

1. What is Copy on First Write (CoFW) Principle?
2. What is accessibility monitoring?
3. What is shoe-shining effect?
4. Explain Seek Time.
5. What is Virtual Tape Library?
6. What is the significance of SAN?
7. What is termed as head flying height in disk drive?
8. Which type of alert message will you receive after successful installation of a software?
9. What is LVM Mirroring?
10. What is the significance of storage array in Data center Infrastructure?

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. Describe briefly about security monitoring.
12. Explain any two parameters required to be monitored in a storage infrastructure.
13. Describe the benefits of using virtual tape library and physical tape library.
14. Compare between provisioning and reporting.
15. Explain source and target in terms of LUNs.
16. Explain any two key requirements for data center element.
17. Differentiate between block level access and file level access.
18. Describe File system snapshot of local replication.
19. Write short notes on disk drive Read/Write head.
20. Explain Recovery Point Objective.

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Differentiate between Backup to disk and Backup to Tape.
22. Describe Backup and Restore operations.
23. Explain the physical components of connectivity.
24. Write short notes on managing storage infrastructure.
25. Explain pointer based full volume replication in storage array based replication.
26. Describe storage network component in a storage infrastructure.
27. Compare the consistency of a replicated file system and database.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain the local replication technologies.
29. Explain in detail about the components of Storage system environment.
30. How will you monitor the storage for all the parameters involved in monitoring? Illustrate.
31. Discuss in detail about the backup technologies.

(12 x 2 = 24)