B C A DEGREE END SEMESTER EXAMINATION - MARCH 2025
SEMESTER 6 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY
COURSE : **19U6VCBCA5 : FUNDAMENTALS OF STORAGE**

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

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1.   What is linear recording method in tape drives?
2.   How is data growth a challenge in managing storage infrastructure?
3.   What are the components of LVM?
4.   Explain Rotational Latency.
5.   What is the significance of DAS?
6.   List the commands required for checking the consistency of the file system in Unix.
7.   Explain data transfer rate.
8.   What are the types of data?
9.   What is cumulative backup?
10. What is performance monitoring?

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. What is zone bit recording and why is it required?
12. Explain helical scan method in tape drives.
13. Explain how the backup system work.
14. How is the tracking of change done from source to target? Explain with example.
15. Describe ILM strategy.
16. Describe the components of Logical Volume Management.
17. Write short notes on Internet Protocol SAN.
18. Explain connectivity.
19. Compare between fatal alert and warning alert.
20. Describe briefly about capacity monitoring.

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. Explain accessibility monitoring with example.
22. Explain pointer based full volume replication in storage array based replication.
23. Explain the advantages and disadvantages of backup to tape.
24. Explain pointer based virtual replication in storage array based replication.
25. Explain about the physical disk structure.
26. Differentiate between RPO and RTO.
27. Explain the key requirements for data center elements.

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. What is the purpose of performing disaster recovery, operational backup and archival?

29. How will you monitor the storage infrastructure? Explain in detail.

30. Define the considerations pertaining to perform the restore and restart operations.

31. Explain in detail about the components of storage system environment.

(12 x 2 = 24)