

Reg. No .....

Name .....

23U662

**B C A DEGREE END SEMESTER EXAMINATION : MARCH 2023**  
**SEMESTER 6 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY**  
**COURSE : 19U6VCBCA5: FUNDAMENTALS OF STORAGE**  
*(For Regular - 2020 Admission and Supplementary - 2019 Admission)*

Time : Three Hours

Max. Marks: 75

**PART A**  
**Answer All (1 mark each)**

1. What are the types of data?
2. What is provisioning?
3. Define Little's law.
4. What is short stroking?
5. What is incremental backup?
6. What is backup process?
7. What is logical unit number?
8. List the commands required for checking the consistency of the file system in Unix.
9. What is Fatal alert?
10. What is Warning Alert?

**(1 x 10 = 10)**

**PART B**  
**Answer any 8 (2 marks each)**

11. Compare between provisioning and reporting.
12. What is the significance of Server and operating system in Data center Infrastructure?
13. Write short notes on disk drive Actuator arm assembly
14. What is zone bit recording and why is it required?
15. Explain Recovery Time Objective.
16. Explain how the backup system works?
17. Describe File system snapshot of local replication
18. What are the advantages and disadvantages of LVM based local replication?
19. Compare between information alert and warning alert?
20. Describe briefly about capacity monitoring?

**(2 x 8 = 16)**

**PART C**  
**Answer any 5 (5 marks each)**

21. Write short notes on managing storage infrastructure.
22. Explain the reason behind less storage capacity in a formatted disk than an unformatted disk with an example.
23. Explain the advantages and disadvantages of backup to tape.
24. Write short notes on Virtual Tape Library.
25. Explain about the physical disk structure.

26. Describe the consistency of a replicated file system
27. Describe storage network component in in a storage infrastructure?

**(5 x 5 = 25)**

**PART D**

**Answer any 2 (12 marks each)**

28. What are the logical components of host? Discuss file system along with its types in detail.
29. Discuss in detail the backup technologies.
30. What is the CoFW principle? Discuss the technologies that follow this principle in the backup and recovery environment.
31. Explain in detail all the management tasks that are performed in the storage infrastructure.

**(12 x 2 = 24)**