Reg. No ..... Name **20U551**

B C A DEGREE END SEMESTER EXAMINATION- OCT. 2020 : JANUARY 2021

SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY

COURSE : **16U5VCBCA5 : FUNDAMENTALS OF STORAGE**

(For Regular - 2018 Admission and Supplementary - 2017 / 2016 Admissions)

Time : Three Hours Max. Marks: 75

PART A

Answer All (1 mark each)

1. What is logical unit number?
2. What is LVM Mirroring?
3. What is Data Explosion?
4. What is RAID?
5. What is termed as head crash in disk drive.
6. Define Full Stroke
7. What is Physical Tape Library?
8. What is cold back up?
9. What is Fatal alert?
10. While monitoring, if one of the storage reports shows the disk drive to be full as 90 percent of its capacity, which parameter is being monitored?

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. What are the advantages and disadvantages of LVM based local replication?
12. What is dependent write I/O principle?
13. Explain Information life cycle.
14. Compare between provisioning and reporting.
15. Explain SCSI model
16. Explain the physical components of host.
17. Explain Recovery Time Objective.
18. Differentiate between Helical scan method and linear recording method.
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 pointer based full volume replication in Storage array based replication
22. Explain the uses of Local Replication in various business applications
23. Explain ILM elements.
24. Explain about the physical disk structure.
25. Explain the structuring of a physical data.
26. Discuss Server less backup and the Extended Copy Command.
27. What are the parameters required to be monitored in a storage infrastructure?

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Briefly describe a) Direct Attached Storage b) Storage Area Networks c) Network Attached Storage.
29. Which components contributes to the disk service time? Discuss each component in detail.
30. Discuss in detail the backup technologies.
31. Discuss with example how will you monitor the storage network for all the parameters involved in monitoring.

(12 x 2 = 24)