TB246235E

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024
2021 ADMISSIONS REGULAR
SEMESTER VI - BCA (Cloud Technology and Information Security Management)
BCA6B24CB18 - Fundamentals of Data Center

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks
(10x2=20)

1. What is an In-House data center?
2. Define data center.
3. Explain the purpose HVAC.
4. List the factors that decide power supply needs in a data center.
5. What are the expenses covered by run budget?
6. Explain flexibility feature in data center design.
7. Distinguish between point load and static load.
8. What is scalability feature in data center design?
9. Explain internet data centers.
10. What is data mirroring and replication.
11. List the techniques used in storage array based replication.
12. What are the factors that define information availability?

Part B

II. Answer any Six questions. Each question carries 5 marks
(6x5=30)

13. Differentiate between Co-location and Managed hosting data center facility.
14. List and explain segments in access layer.
15. List and explain types of budgets.
16. Compare the uptime requirements of data center tiers.
17. Write notes on guidelines for planning the data center design.
18. Distinguish between hard and raised floors. Mention their merits and demerits.
19. Describe software defined data centers.
20. Explain extranet server farm.
21. Write note on Storage array based local replication.

Part C

III. Answer any Two questions. Each question carries 15 marks
(2x15=30)

22. Differentiate between client-server and n-Tier application architecture models.
23. Explain the requirements in designing a data center.
24. Explain data center services in detail.
25. Write a note on backup and recovery. Explain the various backup technologies.