

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025**2018, 2019, 2020, 2021 ADMISSIONS SUPPLEMENTARY****B.C.A SEMESTER VI - CHOICE BASED CORE****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. List the devices present in aggregation layer.
2. Define data center.
3. Mention the purpose of CAT5 cables.
4. Distinguish the types of UPS.
5. Discuss unoccupied space in data center.
6. Describe electrical wireways.
7. Explain the purpose of ramps.
8. What is the use of perforated tiles in data centers?
9. Define virtualisation. List the types.
10. List the features of layer 2 switching.
11. Describe system uptime and system down time.
12. List the types of host based local replication.

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

13. Describe the purpose of data center transport layer.
14. List and explain the core connectivity functions in data center architecture.
15. List and explain types of budgets.
16. Write a note on physical area requirements of data center design.
17. Differentiate between solid and perforated floor tiles.
18. Mention the benefits and features of each type of data center floor tile.
19. Explain extranet server farm.
20. Explain internet server farm and its types.
21. Write note on Storage array based local replication.

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

22. Explain the data center architecture.
23. Describe data center Tier standards.
24. Discuss the types of data centers based on the core functions provided.
25. What is remote replication? Explain the various remote replication technologies.