

TB206805W

Reg. No :

Name :

BCA DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023
2020 Admission Regular, 2019, 2018 Admissions Supplementary
SEMESTER VI - CHOICE BASED CORE
(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. Distinguish between thick and thin client.
2. List the goals of data center.
3. Discuss the purpose of Tier standards for data center.
4. Mention purpose of CAT5 cables.
5. List the man-made factors considered in selection of data center location.
6. Describe electrical wireways.
7. Describe stringers in data center floor design.
8. What is the use of perforated tiles in data centers?
9. Define virtualisation. List the types.
10. List the features of layer 3 switching.
11. What are the factors that define information availability?
12. What are the factors considered in selection of replication technique?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain the multi-tier application architecture.
14. Differentiate between Co-location and Managed hosting data center facility.
15. Compare the uptime requirements of data center tiers.
16. Discuss on Cooling and HVAC systems in data centers.
17. Mention the benefits and features of each type of data center floor tile.
18. Explain the raised floor design and deployment.
19. Explain aggregation layer in data center topology. Mention the components used in the layer.
20. Describe storage layer in data center architecture.
21. Write a note on BC technology solutions.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the core layers in data center architecture.
23. Describe data center Tier standards.
24. Describe access layer in data center topology. Explain its segments.
25. Discuss the use of local replicas. Explain the various local replication technologies.