

**BCA DEGREE END SEMESTER EXAMINATION - JULY 2021**  
**SEMESTER 4 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY**  
**COURSE : 19U4VCBCA2 ; FUNDAMENTALS OF DATA CENTRE**

*(For Regular - 2019 Admission and Supplementary - 2016/2017/2018 Admissions)*

Time : Three Hours

Max. Marks: 75

**PART A**

**Answer All (1 mark each)**

1. Define thick client.
2. What are Single-mode fibre links?
3. What are the Characteristics of an Outstanding Design?
4. Define Pedestal.
5. Define:
  - a. Floor tiles
  - b. Perforated tiles
6. Define Demilitarised Zone (DMZ) server farms.
7. What are (SSL) Off loaders?
8. What is data mirroring?
9. Define Information Availability.
10. Write one disadvantage of Synchronous remote replication.

**(1 x 10 = 10)**

**PART B**

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

11. Define a Data Centre. Write any 3 the top data centre providers.
12. What are the infrastructural resources of a data centre? Explain them briefly.
13. Write a note on Tier I data centre infrastructure.
14. What are the conditions provided by Uptime Institute while classifying a data centre?
15. What do you mean by Raised floor?
16. What are the functions provided by the Ramp?
17. Write a function of Extranet server farm.
18. What is the use of ACLs in security service?
19. What is LVM based replication?
20. What are the operations that can be performed using CoFA? Explain.

**(2 x 8 = 16)**

**PART C**

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

21. What are the roles of data centres in the service provider environment?
22. A data centre should not be located in close proximity to the Electrical railways. Why?
23. What is the importance of Budget Constraints in data center construction?
24. Constructing a ramp is a considerable task. justify your answer
25. What is Server virtualisation?
26. What are the conditions where data redundancy required ?
27. What are the factors that need to be considered for taking data backup?

**(5 x 5 = 25)**

**PART D**

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

28. Write a short note on Access Layer of Data Center architecture.
29. Differentiate between raised floors and no- raised floors.
30. Explain the data centre services.
31. What are the stages of BC Planning Life cycle? Explain.

**(12 x 2 = 24)**