

Reg. No

Name

BCA DEGREE END SEMESTER EXAMINATION - MARCH 2020
SEMESTER 4 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY
COURSE : 16U4VCBCA2 : FUNDAMENTALS OF DATA CENTRE

(Common for Regular 2018 Admission and Improvement / Supplementary 2017/2016 Admissions)

Time : Three Hours

Max. Marks: 75

Section A
Answer All (1 marks each)

1. Define thick client.
2. What are Single-mode fibre links?
3. What do you mean by plenum?
4. Define an electrical wireway.
5. What is the typical dimension of the tiles found in raised floors?
6. Write any 2 functions provided by Internet Edge module.
7. What is the use of Intrusion Detection Systems?
8. What is DMZ?
9. Define the following terms:
 - a) System Uptime.
 - b) System downtime.
10. Define tape mounting.

(1 x 10 = 10)

Section B
Answer any 8 (2 marks each)

11. Define a Data Centre. Write any 3 the top data centre providers.
12. What are the 3 tiers of n-tier model?
13. Write a note on Tier I data centre infrastructure.
14. What do you mean by redundant capacity of a data centre?
15. Write any 2 guidelines that can be followed while designing a data centre?
16. What is the use of plenum space in a data centre?
17. Define the following terms:
 - a. Server Farm
 - b. Firewalls
 - c. Load balancers
18. What is VASAN?
19. Differentiate local replication and remote replication ?
20. What is logical corruption?

(2 x 8 = 16)

Section 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 an Uptime Institute? Also write its functions also.
24. Explain the framework of raised floor.
25. What is Network virtualisation ?
26. What are the operations used to copy source data to the target in pointer based virtual replication.
27. Explain Pointer based full volume replication with diagram.

(5 x 5 = 25)

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

28. Write a short note on Access Layer of Data Center architecture.
29. What are the Characteristics of an Outstanding Design? Explain them.
30. Explain Access Layer Segments with a neat diagram.
31. Differentiate Array-based asynchronous remote replication and Array-based synchronous remote replication

(12 x 2 = 24)