

Reg. No .....

Name .....

19U444

**BCA DEGREE END SEMESTER EXAMINATION - MARCH 2019**  
**SEMESTER 4 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY**  
**COURSE : 16U4VCBCA2 : FUNDAMENTALS OF DATA CENTRE**  
*(For Regular - 2017 Admission and Supplementary/Improvement - 2016 Admission)*

Time : Three Hours

Max. Marks: 75

**Section A**

**Answer all the following (1 marks each)**

1. What are the functionalities provided by Multilayer switches in aggregation layer?
2. What are multi-mode fibres?
3. What do you mean by Modularity of a data center structure?
4. Define Pedestal.
5. What are Stringers?
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)**

**Section B**

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

11. What do you mean by In house data centre?
12. What are the infrastructural resources of a data centre? Explain them briefly.
13. Differentiate solid tiles and perforated tiles.
14. What are the conditions provided by Uptime Institute while classifying a data centre?
15. Write a short note on Aisles.
16. What are the functions provided by the Ramp?
17. What are the functions of Internet Edge module?
18. What are the the core connectivity functions?
19. What are the factors that depend on the selection of the replication technique?
20. Write a short note on back up to tape.

**(2 x 8 = 16)**

### Section C

Answer any 5 (5 marks each)

21. Differentiate Dedicated Hosting and Managed Hosting.
22. How are the equipment to be placed in the rack measured?
23. A data centre should not be located in close proximity to the Telecommunications signal centres. Why?
24. Constructing a ramp is a considerable task. justify your answer
25. Explain the functions of application segmentation in the access layer.
26. What are the conditions where data redundancy required ?
27. Write a short note on full volume mirroring with a neat diagram.

**(5 x 5 = 25)**

### Section D

Answer any 2 (12 marks each)

28. Write a short note on client- server model.
29. Differentiate between raised floors and no- raised floors.
30. Draw a neat diagram of core layer topology and explain its functions.
31. What are the stages of BC Planning Life cycle? Explain.

**(12 x 2 = 24)**