TB174705C   Reg. No: ....

                                                        Name: ....

BCA DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2019
(2017 Admissions Regular, 2016 Admissions Improvement/Supplementary)
SEMESTER IV- CORE COURSE
(CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT)
CA4B07TB – FUNDAMENTALS OF DATACENTER

Time: Three Hours   **Maximum Marks: 80**

PART A

I   Answer all questions. Each question carries 1 mark.

1.   Define data center.
2.   What is plenum?
3.   What are Pedestals?
4.   Mention the use of perforated tiles.
5.   What is the core behavior of SDDC?
6.   What is retention period in data backup?

                                                        (6x1=6)

PART B

II   Answer any seven questions. Each question carries 2 marks

7.   What are IDCs?
8.   What is the purpose of data center transport layer?
9.   What are the unoccupied space in data center
10. What are CAT5 cables
11. Differentiate between run budget and build budget.
12. What are Aisles in data center?
13. Differentiate between solid and perforated tiles
14. What are corporate data centers?
15. Define business continuity.
16. What is replication?

                                                        (7x2=14)
PART C

III Answer any five questions. Each question carries 6 marks

17. Differentiate between client-server and n-Tier application architecture models
18. Describe the various equipment used in electrical power distribution in data centers.
19. Explain the factors considered in selection of geographical area for data center.
20. Distinguish between hard and raised floors. Mention their merits and demerits

21. Write note on guidelines for planning data center design
22. Explain the features provided by IP infrastructure services.
23. Explain in detail the segments of access layer in data center architecture.
24. Discuss on storage array based local replication.

(5x6=30)

PART D

IV Answer any two questions. Each question carries 15 marks

25. Explain the key infrastructural elements in data center.
26. Discuss on raised floor design and deployment in data center.
27. What are server farms? Explain its types.
28. Write note on backup and recovery. Mention the considerations in backup and recovery also explain the backup technologies.

(2x15=30)