

**B.C.A DEGREE END SEMESTER EXAMINATION MARCH 2018****SEMESTER – 4: BACHELOR OF COMPUTER APPLICATION (BCA) (VOCATIONAL COURSE)****COURSE: 16U4VCBCA2: FUNDAMENTALS OF DATA CENTER***(For Regular - 2016 Admission)*

Time: Three Hours

Max. Marks: 75

**SECTION A**Answer **all** questions. Each question carries **1** mark

1. What do you mean by Data Center architecture?
2. Define physical capacity of a Data Center?
3. What is build budget?
4. What is a Load Balancer?
5. What are the major building blocks of an SDDC?
6. MTTR stands for -----?
7. What is Operational Back up?
8. List the key characteristics of an outstanding Data Center Design.
9. What is an Electrical Wireway?
10. Name any four top data center providers in the world. (1 x 10 = 10)

**SECTION B**Answer **any Eight** questions. Each question carries **2** marks

11. What is Run Budget?
12. Write short note on Rack dimension.
13. Explain about the guidelines for planning a Data Center.
14. Write short note on Firewalls.
15. What are the primary considerations in selecting and implementing specific back up strategy?
16. Write short note on roles of Data Centers in the enterprise.
17. What are the causes of Information Unavailability?
18. What are the two types of loads related to a floor?
19. Write short note on Corporate Data Center.
20. Write short note on Disaster recovery. (2 x 8 = 16)

**SECTION C**

Answer **any Five** questions. Each question carries **5** marks

21. Explain about Network Bandwidth requirements of a Data Center.
22. Explain about Raised floor design and deployment.
23. What are the core Layer Drivers? Explain each.
24. Explain the two models of Remote Application.
25. Explain the Multi-tier application architecture.
26. What are the uses of Local Replication?
27. Explain about the three different types of Data Centers in detail. (5 x 5 = 25)

**SECTION D**

Answer **any Two** questions. Each question carries **12** marks

28. Explain about any four Data Center prerequisites.
29. What is Server Farm? Explain about the three different types of Server Farms with necessary diagrams.
30. With a neat sketch explain about BC planning Lifecycle?
31. Explain the different layers in Data Center architecture with a neat sketch. (12 x 2 = 24)

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