

**BCA DEGREE END SEMESTER EXAMINATION - JULY 2021**  
**SEMESTER 4 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY**  
**COURSE : 19U4VCBCA1 ; INTRODUCTION TO CLOUD TECHNOLOGY**  
*(For Regular - 2019 Admission)*

Time : Three Hours

Max. Marks: 75

**PART A**

**Answer All (1 mark each)**

1. What is the difference between datacenters and cloud?
2. What are the two types of resource clusters?
3. List the two basic configurations of Failover system?
4. What are the common examples of resource pools?
5. Service load balancing architecture is considered a Specialized variation of workload distribution architecture. Why?
6. What do you mean by security controls?
7. Distinguish DoS and DDoS?
8. List any two cloud services provided by Cloud service providers?
9. Name any two popular cloud services offered by Salesforce?
10. What is Openstack?

**(1 x 10 = 10)**

**PART B**

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

11. What are the pros and cons in comparison of Public cloud vs private cloud?
12. Summarize the benefits and drawbacks of using "Platform as a Service"
13. Compare file-based and block based cloud storage level?
14. Differentiate between relational data storage and non-relational data storage?
15. Explain Watchdog system and its components?
16. How are IT resources distributed in a workload distribution architecture?
17. Differentiate between confidentiality and integrity?
18. Generalize on data security in cloud?
19. List some driving factor towards cloud?
20. Write short note on Microsoft Azure?

**(2 x 8 = 16)**

**PART C**

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

21. Write short notes on the following:  
1) Cloud Vulnerability 2) Cloud Challenges
22. Are clouds secured? List and discuss the security and privacy implications of cloud computing?
23. Explain the structure of an object of cloud storage level with a diagram?
24. Discuss cloud Storage interfaces?
25. Identify the benefits of zero downtime architecture?
26. Explain DoS attack and DDoS attack?
27. Describe Storage services and compute services of Amazon cloud in detail?

**(5 x 5 = 25)**

**PART D**

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

28. Elaborate on the challenges and vulnerabilities that hinder the adoption of cloud technology?
29. Elaborate on cloud infrastructure mechanisms?
30. Compare workload distribution architecture with resource pooling architecture?
31. Explain the following concepts:
  - i) Security policy disparity
  - ii) Risk Management

**(12 x 2 = 24)**