

Roll No



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JUN 2023**

**Semester :** Semester VI - 2020

**Course Code :** CSE2013

**Course Name :** Sem VI - CSE2013 - Cloud Computing

**Program :** B.Tech - All Programs

**Date :** 7-JUN-2023

**Time :** 9.30AM - 12.30PM

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

**PART A**

**ANSWER ALL THE QUESTIONS**

**(10 X 2 = 20M)**

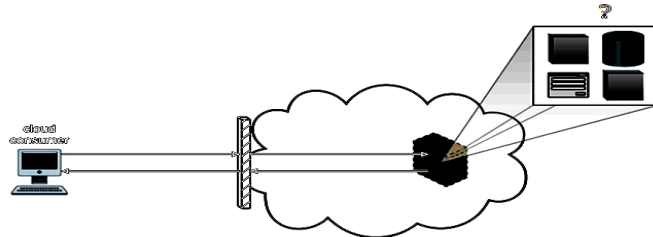
1. What is public cloud? (CO1) [Knowledge]
2. Define cluster computing (CO1) [Knowledge]
3. Explain briefly two forms of encryption. (CO3) [Knowledge]
4. What is the use of MRDriver in CGL mapreduce? (CO4) [Knowledge]
5. Define virtualization. (CO2) [Knowledge]
6. What is ABI? (CO2) [Knowledge]
7. Why cloud uses audit monitor? (CO3) [Knowledge]
8. Why automated scaling listener is required in cloud? (CO3) [Knowledge]
9. What is system level virtualization (CO2) [Knowledge]
10. What are the resources included in IaaS (CO1) [Knowledge]

## PART B

### ANSWER ALL THE QUESTIONS

(5 X 10 = 50M)

11. Cloud infrastructure mechanisms are foundational building blocks of cloud environments that establish primary artifacts to form the basis of fundamental cloud technology architecture. With this perspective, discuss the following cloud infrastructure mechanisms.
- Logical Network Perimeter
  - Identify the following diagram and explain the following infrastructure.



(CO3) [Comprehension]

12. Cloud has several properties that make it totally different from other conventional software applications, such as scalability, concurrency, multitenancy, and fault tolerance. So, the programming models need to be extended to be supported in cloud. How Cloud Haskell can be used in cloud as extended programming model? Explain its key features.
- (CO4) [Comprehension]
13. ATN Part number Catalog company has stored its catalogue in cloud so that customers can request for catalogue to view. How load balancer can be used in this cloud so that requests can be handled properly. Explain the procedures of load balancer.
- (CO3) [Comprehension]
14. Docker is a container management service. It is very helpful and beneficial for programmers by making their task very easy. Explain how docker is beneficial for programmers in project development and deployment. List and explain docker features and components
- (CO4) [Comprehension]
15. Martin, a Team Manager of a software firm has to visit the client base for the delivery of a project. For this purpose, he is in need of unlimited storage, data availability, remote access and virtual desktop infrastructure support. To meet these needs, identify which are virtualization technologies support required? Explain each one of them.
- (CO2) [Comprehension]

## PART C

### ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

16. An IT startup company ABC got the project from customer for development from customer. But they do not have enough money for the initial investment. But they know that Cloud provides various types of services. Which are the types of services they can take from cloud in different situation of different need?
- (CO1) [Application]
17. Cloud has many characteristics like multitenancy, scalability, pay per use, fast response. All these characteristics can be achieved using specialized cloud mechanisms used in cloud. Which are the mechanisms used for monitoring usage as pay per use, monitoring SLA and auditing? Explain these mechanisms using diagram and example.
- (CO3) [Application]