



**PRESIDENCY UNIVERSITY
BENGALURU**
SCHOOL OF INFORMATION SCIENCE
MID TERM EXAMINATION - APR 2023

Semester : Semester IV - 2021

Course Code : CSA2008

Course Name : Sem IV - CSA2008 - Essentials of Cloud Computing

Program : BCA

Date : 13-APR-2023

Time : 9.30AM - 11.00AM

Max Marks : 50

Weightage : 25%

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 1 = 10M)

1. Which of the following is not a type of cloud server
a) Public Cloud Servers (CO1) [Knowledge]
b) Private Cloud Servers
c) Dedicated Cloud Servers
d) Merged Cloud Servers
2. Which of the following is called the best service model?
a) SaaS (CO1) [Knowledge]
b) IaaS
c) PaaS
d) All of the above
3. What is a public cloud
a) A cloud formation that can be seen across the globe (CO1) [Knowledge]
b) A cloud service that can only be accessed from a publicly shared computer
c) A multi-tenant cloud environment accessed over the internet
d) A cloud environment owned, operated and controlled by a public company
4. Which of the following is a type of cloud computing service
a) Service-as-a-Software (SaaS) (CO1) [Knowledge]
b) Service-as-a-Server (SaaS)
c) Software-as-a-Service (SaaS)
d) Software-as-a-Server (SaaS)
5. Which of these options is not a PaaS offering (CO1) [Knowledge]
a) Microsoft Office
b) Microsoft Azure
c) AWS
d) Google App Engine

6. Which one of the following is a kind of technique that allows sharing the single physical instance of an application or the resources among multiple organizations/customers (CO2) [Knowledge]
- Virtualization
 - Service-Oriented Architecture
 - Grid Computing
 - Utility Computing
7. _____ provide the capability of running multiple machine instances, each with their own operating system. (CO2) [Knowledge]
- Virtual Machines
 - Operating System
 - Physical Server
 - All of the above
8. Bare metal hypervisor sits on top of _____ (CO2) [Knowledge]
- Physical Hardware
 - Virtualized Hardware
 - Operating System
 - None of the above
9. Which of the following type of virtualization is also characteristic of Cloud Computing (CO2) [Knowledge]
- Storage
 - Application
 - CPU
 - All of the mentioned
10. System resource access to virtual machine is provided by _____ (CO2) [Knowledge]
- VNM
 - VMM
 - VMC
 - VNN

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

11. Describe all the six design principles for security in the Cloud Computing (CO1) [Comprehension]
12. Describe the three major milestones which have led to Cloud Computing (CO1) [Comprehension]
13. Define Virtualization and Explain its architecture in detail (CO2) [Comprehension]
14. Discuss about the Hardware Assisted Virtualization with neat diagram (CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

15. With a neat diagram explain the Cloud computing deployment models and list out the essential characteristics of it in detail. (CO1) [Application]
16. List and explain all the five types of virtualization in detail. (CO2) [Application]