PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF INFORMATION SCIENCE
END TERM EXAMINATION - JUN 2023

Semester : Semester IV - 2021
Course Code : CSA2008
Course Name : Sem IV - CSA2008 - Essentials of Cloud Computing
Program : BCA

Date : 14-JUN-2023
Time : 1.00PM - 4.00PM
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. List the different types of servers within an IaaS Solution.

   (CO4) [Knowledge]

2. Enlist the major PaaS Issues in cloud computing.

   (CO3) [Knowledge]

3. Justify, does online IDE services count as PaaS or SaaS?

   (CO3) [Knowledge]

4. Explain about the disadvantages of PaaS solutions.

   (CO3) [Knowledge]

5. Enlist the major milestones of cloud computing?

   (CO1) [Knowledge]

6. Define cloud storage and enlist its types

   (CO4) [Knowledge]

7. How many methods are there to run a database in a cloud, define it.

   (CO4) [Knowledge]

8. List the criteria of VMM.

   (CO2) [Knowledge]

9. What are the limitations of cloud computing?

   (CO1) [Knowledge]

10. What is OS-level Virtualization?

    (CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS   **(5 X 10 = 50M)**

11. Identify and describe about which form of virtualization software used in Cloud hosting to divide and allocate the resources on various pieces of hardware and explain its types with neat diagram?

(CO2) [Comprehension]

12. Explain cloud simulator and its benefits and justify the reasons why we want opt for cloud simulator.

(CO4) [Comprehension]

13. Identify and draw the architecture which includes collection of services in a network which communicate with each other along with its advantages and disadvantages.

(CO3) [Comprehension]

14. Which unit is a computer connected to a network that provides only file based data storage to other devices on the network also brief about its advantage and disadvantage with neat diagram?

(CO4) [Comprehension]

15. Cloud Deployment Model functions as a virtual computing environment with a deployment architecture and Cloud service models are models that represent the computing environments. With a neat diagram explain the Cloud computing deployment models and service models.

(CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS   **(2 X 15 = 30M)**

16. Software applications tend to serve different customers or user groups. Each customer/user group can be considered a tenant. Illustrate types of tenant with its architecture, benefits and drawbacks?

(CO4,CO3) [Application]

17. The base of Cloud computing is made of few characteristics. But to get better understanding justify all the essential characteristics along with the Potential benefits.

(CO1,CO2) [Application]