

Roll No																			
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SET-B**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION –MAY/JUNE 2024**

**Semester :** Semester VI-2023-24

**Date :** JUNE 6 -2024

**Course Code :** CSA2008

**Time :**9:30 AM -12:30 PM

**Course Name :** Essentials of cloud computing

**Max Marks :**100

**Program :** BCA

**Weightage :** 50%

- Note:**
- 1. Answer ALL 5 FULL Questions.**
  - 2. Each Full Question carries 20 Marks**
  - 3. Scientific and non-programmable calculator are permitted.**
  - 4. Do not write any information on the question paper other than Roll Number.**

- 1.a. Investigate how can a company benefit from cloud computing. [Knowledge] (C01) (04 Marks)
- 1.b. List out characteristics and benefits of cloud. [Comprehension] (C01) (06 Marks)
- 1.c. Compare and contrast of Cluster, Grid and Cloud Computing. [Application] (C01) (10 Marks)
- OR**
- 2.a. List the characteristics of private cloud [Knowledge] (C01) (04 Marks)
- 2.b. Bring out the difference between the Public Cloud and Private Cloud. [Comprehension] (C01) (06 Marks)
- 2.c. Distinguish between the Cloud Services IAAS,PAAS,SAAS [Application] (C01) (10 Marks)
- 3.a. What is main difference between Ring 0 and Ring 1 [Knowledge] (C02) (04 Marks)
- 3.b. Infer about Virtual machine monitor. [Comprehension] (C02) (06 Marks)
- 3.c. Analyze in detail about the implementation level of virtualization. [Application] (C02) (10 Marks)
- OR**
- 4.a. Define VMM [Knowledge] (C02) (04 Marks)
- 4.b. Summarize the differences between Hardware Abstraction level and OS Level. [Comprehension] (C02) (06 Marks)

- 4.c. Illustrate and explain the machine reference model with ISA security class and Privileged Hierarchy: Security Ring [Application] (C02) (10 Marks)
- 5.a. Explain about Platform as a Service (Paas). [Knowledge] (C03) (04 Marks)
- 5.b. What is NAS? write advantages of NAS. [Comprehension] (C03) (06 Marks)
- 5.c. What is SOA? Discuss with architecture how two software communicate using SOA. [Application] (C03) (10 Marks)
- OR**
- 6.a. List out the functionalities of AmazonS3? [Knowledge] (C03) (04 Marks)
- 6.b. Discuss PAAS application frameworks. [Comprehension] (C03) (06 Marks)
- 6.c. List and explain various storage models of file systems and data base? [Application] (C03) (10 Marks)
- 7.a. How care must be taken not to expose too much information in Code Practices? [Knowledge] (C04) (04 Marks)
- 7.b. Explain in details about the process involved in Handling data in cloud security practices [Comprehension] (C04) (06 Marks)
- 7.c. Compare and Contrast the Internal and External Security requirements [Application] (C04) (10 Marks)
- OR**
- 8.a. Illustrate the process of Accountability in cloud security. [Knowledge] (C04) (04 Marks)
- 8.b. Draw the cloud software security components used in software requirement engineering [Comprehension] (C04) (06 Marks)
- 8.c. Evaluate how Cloud Security Services plays it role to avoid the threats [Application] (C04) (10 Marks)
- 9.a. State and explain limitation and advantages of IAAS solution. [Knowledge] (C03) (04 Marks)
- 9.b. State and explain limitation and advantages of SAAS solution. [Comprehension] (C03) (06 Marks)
- 9.c. Discuss the concept of SaaS integration products and platforms [Application] (C03) (10 Marks)
- OR**
- 10.a. Mention the four types of Cloud security services. [Knowledge] (C04) (04 Marks)
- 10.b. Analyze the Confidentiality areas where the cloud security facing the challenges [Comprehension] (C04) (06 Marks)

10.c Correlate the monitoring of Internal and External Requirements (C04) (10 Marks)  
[Application]