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**Presidency University**

**Bengaluru**

 **SCHOOL OF Information Science**

**MAKE UP EXAMINATION JULY 2024**

**Semester**: 4

**Course Code**: CSE2013

**Course Name**: Cloud Computing

**Program** : BCA

**Date**: 18/JULY /2024

**Time**: 9.30 AM – 12.30 PM

**Max Marks**: 100

**Weightage**: 50%

 **Instructions:**

*Read the all questions carefully and answer accordingly.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries 2 marks. (5Qx 2M= 10M)**

1. Identify the correct option. Applications and services that run on a distributed network using virtualized resources is known as -------- (C.O.No.1) [Bloom’s level- 2]

a) Parallel computing
b) Soft computing
c) Distributed computing
d) Cloud computing
2. Identify the correct option . Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as \_\_\_\_\_\_\_resources to users.

 (C.O.No.2) [Bloom’s level- 2]

1. Real
2. Cloud
3. Virtual
4. none of the mentioned
5. Identify the correct option . Which one of the following refers to the non-functional requirements like disaster recovery, security, reliability, etc. (C.O.No.3) [Bloom’s level- 2]
6. Service Development
7. Quality of service
8. Plan Development
9. Technical Service
10. Identify the correct option . This phase involves selecting a cloud provider based on the Service Level Agreement (SLA), which defines the level of service the provider receives.

 (C.O.No.4) [Bloom’s level- 2]

a) Maintenance and Technical Service

b) Selecting Cloud Computing Provider

c) Both A and B

d) None of the above (C.O.No.1) [Bloom’s level- 2]

5. Identify the correct option . Cloud computing architecture is a combination of?

1. service-oriented architecture and grid computing
2. Utility computing and event-driven architecture.
3. Service-oriented architecture and event-driven architecture.
4. Virtualization and event-driven architecture.

**Part B [Thought Provoking Questions]**

**Answer all the Questions. Each question carries 15 marks. (3Qx15M=45M)**

**Q.NO.2** Explain how would you secure data for transport in cloud. (C.O.No.1) [Bloom’s level- 2]

Summarize the open Challenges in cloud Computing. (C.O.No.1) [Bloom’s level- 2]

**Q.NO.3** Explain the **performance degradation challenge** related to the cloud security.

 (C.O.No.2) [Bloom’s level- 2]

Discuss VMware workstation Architecture with neat Diagram (C.O.No.2) [Bloom’s level- 2]

**Q.NO 4**.Discuss how **REST** facilitates getting information from website. (C.O.No.3) [Bloom’s level-2]

Discuss how SecSDLC identifies specific threats and risks, provides reliability and consistency through various phases. (C.O.No.3) [Bloom’s level-2]

**Part C [Problem Solving Questions]**

**Answer all the Questions. Each question carries 15 marks. (3Qx15M=45M)**

**Q.NO 5**. Suppose you have a complicated IT implementation that you are migrating to the Cloud – Which type of cloud Computing you thing may be the right solution for you as it involves the development of infra right from scratch? Explain the services offered by IaaS and characteristics with Example (C.O.No. 2) [Bloom’s level-2]

**Q.NO 6**. The extension of virtual machines into cloud is affecting enterprise security in the cloud computing environment particularly with regard to SaaS environment. Discuss briefly about all the security concerns with respect to the above scenario. (C.O.No. 3) [Bloom’s level-3]

**Q.NO 7.** Microsoft Azure runs on Microsoft’s data centres and is accessible through the windows Azure Management Portal, based on this briefly explain the Microsoft Windows Azure Platform Architecture. Also explain how Azure offers its various Storage services.

 (C.O.No.4) [Bloom’s level-2]