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**Presidency University**

**Bengaluru**

 **SCHOOL OF ENGINEERING**

**MAKE UP EXAMINATION – JAN 2023**

**Course Code**: CSE 233

**Course Name**: Cloud Computing and Services

**Program & Sem**: Allied CSE & VI Sem

**Date**: 20– JAN - 2023

**Time**: 1:00 pm to 4:00 pm

**Max Marks**: 100

**Weightage**: 50%

 **Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Answer legibly.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries 5 marks. (8Qx 5M= 40M)**

1. “Cloud computing technology is called the backbone of digital transformation”. Provide the reasons in detail. (C.O.No.1) [Knowledge]
2. What are the different types of clouds available? Explain each one of them in detail with examples. (C.O.No.1) [Knowledge]
3. Is it Docker is necessary in cloud computing technology? Explain the role of Docker-container in cloud computing environment. (C.O.No.2) [Knowledge]
4. What is virtualization?

Explain the benefits of virtualization technology in detail. (C.O.No.1) [Knowledge]

1. What do you mean by data center automation? Explain how automation is supported in

data center? (C.O.No.1) [Knowledge]

1. Cloud offers different types of services. List them and explain briefly. (C.O.No.1) [Knowledge]
2. Which are the technologies on which cloud computing relies? ​Explain. (C.O.No.2) [Knowledge]
3. If a virtual machine fails during the live deployment of the web application, whether the process will be stopped? If no, brief how the situation will be handled?

(C.O.No.2) [Knowledge]

**Part B [Thought Provoking Questions]**

**Answer all the Questions. Each question carries 7 marks. (4Qx7M=28M)**

1. What is the need of service level agreement? Explain with a neat diagram, the life cycle and the components of SLA. (C.O.No.3) [Comprehension]
2. While using the cloud services, what are the security challenges faced? Discuss how the monitoring of security happens in cloud environment. (C.O.No.3) [Comprehension]
3. According to Gartner, what are the security issues taken care by the cloud vendors? Provide details on how SecSDLC model supports in designing the security model? (C.O.No.3) [Comprehension]
4. List the service standard support given for the web services. Discuss each one of them in detail. (C.O.No.3) [Comprehension]

**Part C [Problem Solving Questions]**

**Answer all the Questions. Each question carries 8 marks. (4Qx8M=32M)**

1. Suppose that a software professional is opting for a cloud service for hosting his web applications. His need is to choose the “**very popular cloud service provider in the market”**. Identify which cloud service he can opt for? Explain at least 3 services in detail offered from the vendor chosen by him. (C.O.No.3) [Application]
2. Simon, a businessman is in search of a PaaS based cloud service to support web application coded with **Python, Java and Go programming languages**. Which cloud service is best suitable for him? With the help of a diagram neatly explain 3 services provided the cloud vendor chosen by him. (C.O.No.3) [Application]
3. What is the name of **public cloud service** provided by tech giant Microsoft? Detail the application, data, compute and network services offered by it. (C.O.No.3) [Application]
4. What is the importance of **framework services** in cloud platform? Explain Aneka framework supports cloud environment by providing a uniform interface? (C.O.No.3) [Application]