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:

(i) Read the all questions carefully and answer accordingly.

(ii) 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]
5. What do you mean by data center automation? Explain how automation is supported in data center?   (C.O.No.1) [Knowledge]
6. Cloud offers different types of services. List them and explain briefly. (C.O.No.1) [Knowledge]
7. Which are the technologies on which cloud computing relies? Explain.
                                                            (C.O.No.2) [Knowledge]
8. 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)**

9. 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]
10. 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]

11. 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]

12. 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)**

13. 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]

14. 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]

15. 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]

16. 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]