

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JUN 2023**

Semester : Semester VI - 2020

Course Code : CSE3052

Course Name : Sem VI - CSE3052 - System Provisioning and Configuration Management

Program : CDV

Date : 14-JUN-2023

Time : 9.30AM -12.30PM

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. What is cloud service provision?
(CO2) [Knowledge]
2. What are benefits of user provisioning?
(CO1) [Knowledge]
3. Define operating system provisioning.
(CO1) [Knowledge]
4. What is network provisioning?
(CO1) [Knowledge]
5. What is the need of automation at data center?
(CO2) [Knowledge]
6. List the benefits of service provisioning.
(CO1) [Knowledge]
7. Why automation is called as the key to cloud success?
(CO2) [Knowledge]
8. What are different types of service provisioning available?
(CO1) [Knowledge]
9. Define the different categories of cloud deployment models.
(CO2) [Knowledge]

10. What are the essential characteristics of cloud computing?

(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(5 X 10 = 50M)

11. What are the best practices followed by automation tools? Write a short note on 5 automation tools and their features.

(CO3) [Comprehension]

12. If you need to set up the infrastructure, what feature has to be supported by automated tool? Discuss in detail, how the support is provided?

(CO3) [Comprehension]

13. Discuss static testing in detail.

(CO2) [Comprehension]

14. Automation tools are used extensively in software industry to increase the production and to save the time. Don't you think these tools also face error handling situations? If your answer is yes, explain how exception handling is performed by automation tools?

(CO3) [Comprehension]

15. Albert, a software engineer in profession is planning to start a software firm with out a huge capital investment. Initially, he is in need of infrastructure and platform support. If he is opting for AWS cloud subscription, which are the services he has to opt at the initial stage of his start-up?

(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

16. For the automated setting up of infrastructure, suppose that you are in the requirement of the tool which supports the features such as manage any infrastructure, track your infrastructure, automate changes, standardize configurations. Identify which automated tool is best suitable to meet these features.

Based on the identification answer the following questions:

- a) Tool Architecture
- b) Basic Commands
- c) Key Features

(CO4) [Application]

17. Which is the underlying programming language support given in Terraform to configure the infrastructure? Discuss it's unique features with syntax and advantages.

(CO4) [Application]