Name:

Enrolment No:



UPES

End Semester Examination, May 2024

Course: Infrastructure Automation **Semester:** VI Program: BCA Time : 03 hrs.

Course Code: CSBC3021P Max. Marks: 100

Instructions: Attempt all the questions. The total number of pages is 3. "Believe you can and you're halfway there."

SECTION A (5 Q x 4M=20Marks)

S. No.		Marks	СО
Q.1	Describe the HTTP methods supported by REST?	4	CO4
Q.2	A system administrator attempts to determine what is causing a computer to perform slower than normal. The administrator issues the ps command. What is displayed by this command?	4	CO1
Q.3	A user enters the commands as shown. What is the result after the mv command is entered?		
	devasc@labvm:~/Documents\$ pwd /home/devasc/Documents devasc@labvm:~/Documents\$ mv myfile.sh/Desktop/myfile2.sh	4	CO1
Q.4	What are two features of the formal code review?	4	CO3
Q.5	The development team in the IT department has decided to implement CI/CD. What are three characteristics of this strategy?	4	CO3
	SECTION B		
	(4 Qx10M = 40 Marks)		
0.6	Answer any four.		T
Q.6	Write the difference between centralized version control system (CVCS) and Distributed version control system (DVCS)? List the benefits of the Distributed version control system.	10	СОЗ
Q.7	Describe the benefits of various software design patterns? Compare the different software development methodologies.	10	CO3
Q.8	Discuss the caching mechanism and stateless in RESTful? List major HTTP response codes returned by REST API?	10	CO4

Q.9	What is the outcome of performing a Git merge between two branches? Explain the git commands with examples: init, pull, push, fetch and log.	10	CO3
Q.10	Refer to the exhibit. Match the items needed in the Python script. Options: import xml, import json, resp.json(), serviceTicket, import ncclient, resp.status_code "username": "cisco", "Password": "cisco123!" import requests "ltem A" api_url = "http://localhost;58000/api/v1/ticket" headers = { "content-type": "application/json" } Body = { "ltem B" } } resp = requests.post(api_url, json.dumps(body), headers=headers, verify=False) print("Ticket request status: ","Item C") responser = "ltem D" serviceTicket = responser["response"]["Item E"] print("The service ticket number is: ", serviceTicket)	10	CO3,4
	SECTION-C (2 Q x 20M=40 Marks) Answer any two.		
Q.11			CO1,3

Q.12	Discuss the DevNet overview? How does DevNet encourage communities for network programmers? Discuss the DevNet online resources?	20	CO2
Q.13	What are the Linux File Permissions? Discuss the three permission groups in Linux? How to Change Permissions in Linux? Discuss the octal notations in Permissions in Linux? If a user wants to change "myfile.txt" file permission to "rw-r" what commands should be executed?	20	CO1