SVKM'S NMIMS

MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT& ENGINEERING/

SCHOOL OF TECHNOLOGY MANAGEMENT

Academic Year: 2023-2024

Program/s: MCA | Year: II Semester: III

Stream/s ;__Batch B1_

Subject: DevOps | Time: 1 hrs

Date:16/10/2024 | No. of Pages:1

Marks: __10_____

M2 Examination

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

1) Question is compulsory.
2) All questions carry equal marks.
3) Answer to each new question to be started on a fresh page.
4) Figures in brackets on the right hand side indicate full marks.
5) Assume Suitable data if necessary.
6) In case of hardware or software issues take screen shot of the issue and paste in the answer sheet. Continue solving the question by writing the flowchart or algorithm or steps.
7)Candidates should create a word document of the solution and paste their steps, screenshot of outputs / commands executed/results in the document. Further any code written should also be paste.

Q1	CO- 1; SO-1 ; BL-1	Integrate a basic Python project into SonarCloud and analyze its code quality. Configure the project to show issues like code smells, bugs, and security vulnerabilities.	Roll no ending with 1,5
Q2	CO-1; SO-1 ; BL-1	Scale a running Kubernetes deployment from 2 replicas to 5 replicas, and verify that the scaling was successful.	Roll no ending with 2,6
Q3	CO- 2; SO-2 ; BL-2	Write an Ansible playbook that installs Apache on a remote server and ensures the service is started.	Roll no ending with 3,7
Q4	CO- 3; SO-3 ; BL-3	Configure Jenkins to deploy a Docker container running Nginx to a local Docker host. The pipeline should build the Docker image and start the container.	Roll no ending with 4,8
Q5	CO-2; SO-5; BL-2	Write a Terraform configuration to create a local Docker container running Nginx. The container should be created using the Docker provider in Terraform.	Roll no ending with 0, 9