Roll No.



BENGALURU

School of Computer Science Engineering Mid - Term Examinations - November 2024

Semester: V **Date**: 06-11-2024

Course Code: CSE3046 Time: 09.30am to 11.00am

Course Name: DevOps Tools and Internals Max Marks: 50

Program: B. Tech. – CSE (DevOps) Weightage: 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

follow to develop this project? Explain the proposed

model in detail.

Part A

	Part A									
Ans	wer ALL the Questions. Each question carries 2marks.	5Qx2M=10M								
1	Define DevOps	2 Marks	L1	CO1						
2	Summarize DevOps Culture and Practices	2 Marks	L1	CO1						
3	Name the tools used in CI/CD process & testing phase.	2 Marks	L1	CO1						
4	What is Registry in docker?	2 Marks	L1	CO2						
5	How do you spin up a Docker container?	L1	CO2							
	Part B									
Ans	wer ALL Questions. Each question carries 10 marks.		4QX10M=40M							
6	Explain the architecture of the DevOps with a neat diagram.	10 Marks	L2	CO1						
Or										
7	You are the project manager of an organization. A customer is approaching you to develop a project and he is not sure about the entire requirements and he may add new requirements when the development is in progress. Which development methodology you will propose and	10 Marks	L2	CO1						

8	8a.	Develop the step by step procedure with proper syntax to create 2 files in working directory and move them to github account	5 Marks	L3	CO1					
	8b.	Explain the difference between cloning and fork	5 Marks	L2	CO1					
Or										
9	9a.	Construct the procedure to manage the conflicts that arises during merging the two branches with correct syntax.	5 Marks	L3	CO1					
	9b.	Sameer wants to use DevOps in his upcoming project and he is new to git & github. Explain the benefits of using Git and GitHub to him.	5 Marks	L2	CO1					
10	10a.	Illustrate the difference between hypervisor and docker.	5 Marks	L2	CO2					
	10b.	Explain the difference between the commands stop, kill and pause with respect to docker. Provide the correct syntax for all these 3 commands.	5 Marks	L2	CO2					
Or										
11	11a.	Compare image and containers in Docker	5 Marks	L2	CO2					
11	11b.	Explain briefly on Docker Daemon.	5 Marks	L2	CO2					
12		Construct the procedure for building an image with Dockerfile. Explain the content of Dockerfile.	10 Marks	L3	CO2					
0r										
13		Develop the procedure for Pulling Docker Images and Spinning Containers	10 Marks	L3	CO2					