



**KONERU LAKSHMAIAH
EDUCATION FOUNDATION**
(Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

B.Tech - Even Sem : End Semester Exam
Academic Year:2021-2022

19CS3256S - CONTINUOUS DELIVERY & DEVOPS
Set No: 3

Time:		Max.Marks: 100					
S.NO	Answer All Questions	Choice	Options	Marks	CO	CO BTL	COI BTL
1.	Explain the concept of file based source control system and how it is different from distributed control system	choice Q-2		10Marks	CO1	2	2
2.	Explain the Workflow of DevOps and DevSecOps with the help of a diagram.			10Marks	CO1	2	2
3.	a. Illustrate the need of cloud in Devops b. Identify the steps to deploy the files in Bitbucket via Git	choice Q-4		15Marks	CO1	2	2
4.	Recall the challenges that are faced by Development team in the project designing List out all the benefits of DevOps with a diagram.			15Marks	CO1	2	2
5.	Explain in detail about chef architecture	choice Q-6		10Marks	CO2	3	2
6.	Examine the flow of Code commit in AWS with steps			10Marks	CO2	3	2
7.	a. Analyze and write the steps for automation testing framework with behavioral concepts by using cucumber with any sample scenarios b. Outline the challenges that are faced by Operations team in the development of a project	choice Q-8		15Marks	CO2	3	2
8.	Explain Pull and Push Mechanisms in Continuous Integration Build the steps that are included to merge a Django project to AWS Platform.			15Marks	CO2	3	4
9.	Develop the steps for creating a docker image from docker file.	choice Q-10		10Marks	CO3	4	2
10.	Build the steps how to Install software packages using cookbooks.			10Marks	CO3	4	2
11.	List out the three main components of chef installation. Outline the importance of docker over virtual machines	choice Q-12		15Marks	CO3	4	2
12.	Examine the Components of Kubernetes			15Marks	CO3	4	2
13.	Develop the procedure for configuring a pipeline for orchestration of a build job.	choice Q-14		10Marks	CO4	4	2
14.	Inspect the Ansible Configuration Management tool and Sketch the Ansible Architecture			10Marks	CO4	4	2
15.	Explain grafana dash board in detail.	choice Q-16		15Marks	CO4	4	3
16.	a. Compare and Contrast Host status and Service Status of Nagios b. Outline the steps needed to configure SSH authentication using a key.			15Marks	CO4	4	3

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