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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Supply) – April - 2025 DEVOPS

(CSM)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

Code No.: AI731PE

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a)	Differentiate between DevOps and Agile Model.	[2M]
b)	Explain about the artifact repository.	[2M]
c)	Explain in detail about coupling.	[2M]
d)	What is version control, and why is it important in DevOps?	[2M]
e)	What is Docker?	[2M]
f)	Discuss about shared authentication.	[2M]
g)	Explain about Jenkins Plugins.	[2M]
h)	Name some popular CI/CD tools.	[2M]
i) j)	Why are there so many different deployment Systems? Explain What is Unit Testing?	[2M] [2M]
	PART-B	(50 Marks)
2.	Discuss in detail about release management and agile development model. OR	[10M]
3.	Explain about DevOps life cycle.	[10M]
4.	Write a brief note on software architecture. Explain about the Monolithic Scenario.	[10M]
	OR	
5.	Compare the waterfall and Agile DevOps model.	[10M]
6.	Discuss about Hosted Git Servers and the pull request Model.	[10M]
7.	OR Explain about Docker advantages and Disadvantages.	[10M]
8.	What are triggers? Explain about job chaining and build pipelines. OR	[10M]
9.	Explain the CI/CD pipeline and its stages.	[10M]
10.	i) Visualization Stacks ii)Automated Integration Testing	[10M]
11.	OR Discuss about Kubernetes using Application. ***********************************	[10M]