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SITE21**April - 2024****III B.Tech II Sem Regular Examinations****DevOps****Subject Code: 21CSCST6020****Time: 3 hours****Max. Marks: 70****Instructions:**

1. Answer one full question from each unit in Part-A. Each full question carries 14 marks

PART- A

1	a	Explain importance of Agile software development.	2	CO1	[7M]
	b	What is SDLC? Explain various phases involved in SDLC.	1	CO1	[7M]
OR					
2	a	Write principles of Agile software development.	1	CO1	[7M]
	b	What advantages does SDLC offer an organization? Explain	1	CO1	[7M]
3	a	Describe DevOps delivery pipeline.	2	CO2	[7M]
	b	What is need of DevOps?	1	CO2	[7M]
OR					
4	a	Explain the three ways of underpinning principles from which the DevOps behaviors and patterns are derived.	2	CO2	[7M]
	b	Explain DevOps architecture	2	CO2	[7M]
5	a	Explain various factors that influence DevOps Adoption.	2	CO3	[7M]
	b	What is the difference between Agile and DevOps?	1	CO3	[7M]
OR					
6		Explain tool stack implementation in DevOps.	2	CO3	[14M]
7	a	Explain about continuous deployment.	2	CO4	[7M]
	b	Explain metrics used to track CI and CD practices.	2	CO4	[7M]
OR					
8	a	Write difference between continuous integration and continuous	1	CO4	[7M]

		delivery.			
	b	What is Continuous Integration? Explain the benefits.	1	CO4	[7M]
9	a	Describe key factors of DevOps maturity model	2	CO5	[14M]
OR					
10	a	Describe the four key tenets of DevOps that all mature ecosystems need to be considered as a benchmark for assessing the maturity of DevOps practices.	2	CO5	[14M]
