Introduction TO DevOps (414445B) (2019 Pattern) (Semester-VII) (Elective - IV)

Tim	e: 24	Hoursj [Max. Marks	[Max. Marks : 70	
Insti	ructio	ns to the candidates :		
	1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.		
	2)	Neat diagrams must be drawn wherever necessary.		
	3)	Figures to the right side indicate marks.		
	4)	Assume suitable data, if necessary.		
Q1)	a)	What is Test Driven Development? Explain in brief.	[5]	
	b)	What are benefits of Continuous Integration (CI) and Continuous Delice(CD)?	very [5]	
	c)	Explain the stages for building Continuous Integration and Continuous Delivery pipelines.	uous [8]	
		OR		
Q2)	a)	Explain Blue Green Deployment?	[5]	
	b)	Explain Canary deployment?	[5]	
	c)	How to create build reports? Explain the process of putting a buil shared location and releasing it.	ld in [8]	
Q3)	a)	Write a short note on Automated Acceptance Test Best Practices.	[5]	
	b)	What is continuous deployment?	[4]	
	c)	Draw & explain basic deployment pipeline cycle.	[8]	

Q4)	a)	Explain Integration Testing in detail.	[5]
	b)	Write a short note on commit stage of deployment pipeline.	4
	c)	Explain different types of testing strategy	8
Q5)	a)	What is Behaviour-Driven Monitoring?	4
	b)	What is a Monitoring System? What are key requirements of monitor system?	ing 6
	c)	Write a note on: White-Box and Black-Box Monitoring OR	8
Q6)	a)	What are common tools used by site reliability engineering (SRE)?	4
	b)	What is site reliability engineering (SRE)? Explain its role a responsibilities.	and 6
	c)	Explain the importance of monitoring system? List and explain fact involved in monitoring system.	tors 8
Q7)	a)	What are the benefits of using version control?	[6]
	b)	What is Docker? What are main components of a Docker architecture?	?[6]
	c)	Write a note on Jenkins and its role in Continuous Integration. OR	5
Q8)	a)	Write a note on Selenium and its role in Continuous testing.	[6]
	b)	What is version control system? Explain its types.	[6]
	c)	What is serverless orchestration in Kubernetes?	[5]