Reg No.: Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fourth Semester MCA Degree Regular and Supplementary Examination July 2021

Course Code: RLMCA202

Cor	urse Name: APPLICATION DEVELOPMENT AND MAINTEN	ANCE
Max. N		n: 3 Hours
	PART A	Modra
1	Answer all questions, each carries 3 marks.	Marks
1	Describe the steps for effective use of version control.	(3)
2	Write a short note on installing and configuring Git.	(3)
3	Explain about fixing commits in Git.	(3)
4	List the deployment pipeline practices.	(3)
5	What is the importance of automated acceptance testing? Explain.	(3)
6	Write a short note on creating a release strategy.	(3)
7	Differentiate orthogonality and reversibility in the pragmatic approach.	(3)
8	What is refactoring? Explain.	(3)
	PART B	
	Answer any one question from each module. Each question carries 6 marks	5.
	Module I	
9	Explain the principles of software delivery in detail.	(6)
	OR	
10	Describe the concept of continuous integration with the help of an application	on (6)
	development example.	
	Module II	
11	Explain the following with respect to Git.	(6)
	i) Creating and switching branches	
	ii) Viewing branches	
	iii) Merging commits between branches	
	iv) Rewriting history by rebasing	
	v) Deleting branches	
	vi) Tagging milestones	

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OR

12	a)	Explain how to add remotes, remove remotes and sending changes to remotes	(3)
		in Git.	(2)
	b)	Discuss retrieving remote changes in Git.	(3)
		Module III	
13		Discuss the concept of deployment scripting in detail with the help of an	(6)
		example.	
		OR	
14		Explain in detail about the commit stage with a neat diagram.	(6)
		Module IV	
15		What do you mean by capacity testing environment? Explain about automating	(6)
		capacity testing.	
		OR	
16		Discuss about deploying and promoting an application.	(6)
		Module V	
17		Explain the basic tools used by the pragmatic programmers in software	(6)
		development.	
		OR	
18		Explain Design by Contract in detail.	(6)
		Module VI	
19		Explain the following in detail.	(6)
		i) Decoupling and the Law of Demeter	
		ii) Temporal coupling	
		iii) Blackboards	
		OR	
20		Describe ruthless testing in detail.	(6)
