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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

First Semester MCA (2 Year) Degree Examination December 2021

Course Code: 20MCA107

Course Name: ADVANCED SOFTWARE ENGINEERING

Max. Marks: 60 Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks. Marks

1	How do you measure software reliability?	(3)
2	What is COCOMO estimation model?	(3)
3	What are the four dimensions of software quality?	(3)
4	Explain the three states in which files reside in Git.	(3)
5	What are the characteristics of a design class?	(3)
6	Write about any three key classes in xUnit architecture.	(3)
7	List out the steps in agile methodology.	(3)
8	Explain decision table testing with suitable diagram.	(3)
9	What are the benefits of configuration management?	(3)
10	Distinguish between build automation and deployment automation.	(3)

PART B

Answer any one question from each module. Each question carries 6 marks.

Module I

11	Draw a waterfall model and explain the life cycle of a software system.	(6)
	OR	
12	Prepare a basic software requirement specification for basic library system.	(6)

Module II

13	What is a Git repository? Explain the process of Cloning a Git repository.	(6)
	OR	
14	Explain how to view the commit history in Git. Write the syntax of the commands used.	(6)

Module III

15	Explain the concepts of Anti-pattern.	(6)
	OR	
16	What are single condition tests and expected error tests in Unit Test? Explain	(6)

Module IV

17 Explain the meetings involved in scrum software development methodology. (6)

OR

18 What is blackbox testing? Explain. (6)

Module V

19 Define continuous integration. Explain the essential practices required for continuous integration. (6)

OR

20 With a neat diagram, explain deployment pipeline and the various stages of deployment pipeline. (6)

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