

Reg. No. \_\_\_\_\_ Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
SECOND SEMESTER MCA (Second Year Direct) &  
FOURTH SEMESTER MCA (Regular) DEGREE EXAMINATION, APRIL 2018  
**Course Code: RLMCA 202**  
**Course Name: APPLICATION DEVELOPMENT AND MAINTENANACE**

Max. Marks: 60

Duration: 3 Hours

**PART A**

*Answer All Questions. Each question carries 3 marks.*

1. Specify the commands for configuration of GIT. How we can clone a repository?
2. Define types of testing based on Brian Marick.
3. Define git blame.
4. Explain any two build tools.
5. Define performance, throughput and capacity.
6. How we can create a release strategy?
7. Who is a pragmatic programmer and define his characteristics?
8. Discuss coupling and law of Demeter.

**PART B**

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

**MODULE I**

9. Define continuous Integration. Explain the essential practices required for continuous Integration.

**OR**

10. Explain version control and steps for effective use of version control.

**MODULE II**

11. Explain how we can work with GIT.

**OR**

12. Explain how can we organize our repository with branches and tags.

**MODULE III**

13. Explain Deployment pipeline with figure.

**OR**

14. Explain Commit Stage.

**MODULE IV**

15. How we can create and maintain effective automated acceptance test?

**OR**

16. Write short notes on

- Canary Releasing.
- Zero Downtime Release.
- Blue Green Deployment.

**MODULE V**

17. Explain any four basic tools of pragmatic programmer.

**OR**

18. Discuss on evils of duplication.

**MODULE VI**

19. Explain Software testing methods.

**OR**

20. Write short notes on

- a. Meta programming.
- b. Refactoring.

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