

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER MCA (Second Year Direct) DEGREE EXAMINATION, DEC 2018

Course Code: RLMCA203

Course Name: SOFTWARE ENGINEERING

Max. Marks: 60

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|---|---|-----|
| 1 | List the four rules of Osborn method. What is its use? | (3) |
| 2 | Write any three advantages and disadvantages of spiral model. | (3) |
| 3 | What are the most common methods used in Rapid Application Development? | (3) |
| 4 | Define the Interface - Segregation Principle. | (3) |
| 5 | Explain Test-Driven development. | (3) |
| 6 | What is a Burn - down chart? | (3) |
| 7 | Explain the concept of software entropy. | (3) |
| 8 | Write a short note on Continuous Testing. | (3) |

PART B

Answer six questions, one full question from each module and carries 6 marks.

Module I

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|---|---|-----|
| 9 | a) What is Software maintenance? Mention different types of Software maintenance. | (3) |
| | b) What does FURPS stand for? | (3) |

OR

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| 10 | Explain COCOMO model with its relevant equations. | (6) |
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Module II

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| 11 | Briefly explain the concept of Incremental Waterfall. How Incremental Waterfall model differ from Sashimi? | (6) |
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OR

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| 12 | How prototypes can be useful in Iterative development? Summarizes the advantages and disadvantages of Prototyping. | (6) |
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Module III

- 13 What is Manifesto for Agile Software Development? What are the guiding principles for agile software development? (6)

OR

- 14 What do you mean by Refactoring? Mention different refactoring techniques. (6)

Module IV

- 15 Explain the Scrum activities. (6)

OR

- 16 a) Describe Product backlog in Scrum. (3)
b) What is the role of the Scrum master? (3)

Module V

- 17 Explain Design by Contract. (6)

OR

- 18 Explain the concept of Ruthless testing. (6)

Module VI

- 19 a) Explain Continuous Delivery. (3)
b) What are the benefits of source control? What needs to be source-controlled in DevOps? (3)

OR

- 20 a) Explain Release Management and its benefits. (4)
b) What is Deployment Pipeline? (2)
