

Reg No.: TVE 22 MCA-2023

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

First Semester MCA (Two Year) Degree (R,S) Examination December/January 2022-23

Course Code: 20MCA107

Course Name: ADVANCED SOFTWARE ENGINEERING

Maxmark:60

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|------|---|-----|
| 1 - | Explain Sashimi Model. | (3) |
| 2 ✓ | Explain COCOMO Estimation Model. | (3) |
| 3 - | Explain Literate Programming. | (3) |
| 4 | Explain Conformance Quality. What are the techniques used for ensuring conformance quality? | (3) |
| 5 ✓ | Explain Unit testing. | (3) |
| 6 | What is Anti-Patterns? | (3) |
| 7 ✓ | Explain Defect Life Cycle. | (3) |
| 8 | What is Regression Testing? | (3) |
| 9 ✓ | Explain Version Control System? What is the purpose of using it? | (3) |
| 10 - | Explain the benefits of Software Configuration Management? | (3) |

PART B

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

Module I

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| 11 | Explain Prototype. Also its types, advantages and disadvantages. | (6) |
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OR

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| 12 ✓ | What are the characteristics of a Software? | (6) |
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Module II

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|------|--|-----|
| 13 ✓ | Explain how to clone a Git repository. | (6) |
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OR

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| 14 | Explain the four dimensions of quality. | (6) |
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Module III

- ✓15 What is a Design pattern? Explain how to select a design pattern for your problem. (6)

OR

- 16 Explain xUnit architecture and write example for testing using any frame work. (6)

Module IV

- 17 Explain Scrum framework. (6)

OR

- 18 ✓ Explain Black-Box testing and White-Box testing. Give any two techniques for each testing type. (6)

Module V

- 19 Explain the principles of software delivery. (6)

OR

- 20 — Explain the essential practices that should be enforced on Continuous Integration (CI) teams. (6)
