

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Third Semester B.Tech (minor) Degree Examination December 2020

Course Code: ITT285

Course Name: SOFTWARE ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions. Each question carries 3 marks

Marks

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|----|-------------------------------------------------------------------|-----|
| 1 | Explain applications of agile model. | (3) |
| 2 | List out advantages and disadvantages of prototyping model. | (3) |
| 3 | Explain the importance of Software Requirement Specification. | (3) |
| 4 | Why feasibility study is required in Software development? | (3) |
| 5 | What is the advantage of responsive web app design? | (3) |
| 6 | List out different steps in testing object oriented applications. | (3) |
| 7 | Explain the use of bug fixing tools. | (3) |
| 8 | Distinguish team factor and customer factor. | (3) |
| 9 | List out categories of software documentation. | (3) |
| 10 | Explain business aspects of software engineering. | (3) |

PART B

Answer any one full question from each module. Each question carries 14 marks

Module 1

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|----|---------------------------------------------------------------------------------------------------------|------|
| 11 | Explain waterfall model and spiral model with neat diagrams. Mention the differences of the two models. | (14) |
| 12 | a) Explain in detail on the software development process. | (10) |
| | b) What are the applications of spiral model? | (4) |

Module 2

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|----|-------------------------------------------------------------------|------|
| 13 | a) Explain any two modelling techniques for requirement analysis. | (8) |
| | b) Explain Formal and Informal methods of Specification | (6) |
| 14 | Explain SRS format with an example. | (14) |

Module 3

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| 15 | Explain any two UML diagrams with examples. | (14) |
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- 16 a) What are the objectives of software testing? (4)
b) Explain the different steps in software testing. (10)

Module 4

- 17 a) Explain the different steps in Software Configuration Management. (10)
b) Explain the role of users in problem definition. (4)
- 18 Explain the importance of people in problem solving process. Also explain the responsibility of each person. (14)

Module 5

- 19 a) Explain different phases of Software Project Management. (10)
b) Explain any two software maintenance methods. (4)
- 20 a) Explain different categories of Software products and Software documentation. (8)
b) Explain legal aspects of software licence. (6)
