

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 2022 (2019 Scheme)

Course Code: ITT 309**Course Name: MANAGEMENT FOR SOFTWARE ENGINEERS**

Max. Marks: 100

Duration: 3 Hours

PART A*(Answer all questions; each question carries 3 marks)*

Marks

- | | | |
|----|---|---|
| 1 | Explain the Generic process framework activities for Software engineering. | 3 |
| 2 | What are the different phases of the Unified process? | 3 |
| 3 | Explain the major activities carried out by a software project manager. | 3 |
| 4 | How do you categorize a software project? | 3 |
| 5 | Explain on schedule compression. | 3 |
| 6 | Write a note on Cost-benefit analysis. | 3 |
| 7 | Differentiate between project sequencing and project scheduling activities. | 3 |
| 8 | How activities are prioritized for resource allocation? | 3 |
| 9 | What is a Quality plan? | 3 |
| 10 | Explain CMMI. | 3 |

PART B*(Answer one full question from each module, each question carries 14 marks)***Module -1**

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|----|--|----|
| 11 | a) Explain waterfall model with a neat diagram. What are the advantages and disadvantages of this model? | 10 |
| | b) Write a note on Agile modelling. | 4 |
| 12 | a) Explain extreme programming in detail. | 7 |
| | b) With suitable illustration explain SPIRAL model. | 7 |

Module -2

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|----|---|----|
| 13 | a) Explain software project management spectrum. | 10 |
| | b) Is an engine management system in vehicles an information system or an embedded system? Explain. | 4 |

- 14 a) What is a project? Describe the characteristics of Software projects that make them different from other types of project. 7
- b) Write note on setting objectives for the project. 7

Module -3

- 15 a) Explain in detail the Steps in Project planning. 14
- 16 a) Suppose a project was estimated to be 500 KLOC. Calculate the effort and development time for Organic model, Semi-detached model and Embedded model. 7
- b) Explain on Benefits management. 7

Module -4

- 17 a) Explain the Objectives of Activity planning? 5
- b) What are the two approaches for risk identification? 9
- 18 a) Explain the Forward pass and Backward pass analysis with an example. 14

Module -5

- 19 a) How do you visualize project progress? Explain. 5
- b) Explain any three motivational models. 9
- 20 a) Explain in detail on Earned Value Analysis. 9
- b) Write note on various leadership styles. 5
