

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Examination December 2021 (2019 scheme)

Course Code: ITT309**Course Name: MANAGEMENT FOR SOFTWARE ENGINEERS**

Max. Marks: 100

Duration: 3 Hours

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

		Marks
1	What are the disadvantages of waterfall model over agile?	3
2	Compare spiral model with prototyping model.	3
3	What are the four P's of project management spectrum?	3
4	What are the factors that influence the success or failure of a project?	3
5	What is portfolio management? Why it is important?	3
6	What are SMART project objectives?	3
7	What are activity-on-arrow networks?	3
8	Describe how critical path in precedence network can be identified?	3
9	What are the various techniques used to enhance software quality?	3
10	Describe CMMI.	3

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

11	a) Explain any 4 types of agile methodology for software development?	10
	b) What is sprint plan in scrum model?	4
12	a) Explain specialised process models.	9
	b) Briefly describe unified process model.	5

Module -2

13	a) Explain management spectrum in software engineering.	10
	b) How are Software projects categorized?	4
14	a) Compare the traditional & modern project management methods.	8
	b) Explain the major activities carried out by a software project manager and the order in which these are carried out.	6

Module -3

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|----|----|---|----|
| 15 | a) | Explain in detail the Steps in Project planning. | 14 |
| 16 | a) | Explain the different effort estimation techniques. | 9 |
| | b) | Describe the use of dependency diagram in program management. | 5 |

Module -4

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|----|----|---|---|
| 17 | a) | Explain the forward pass and backward pass analysis in CPM with a suitable example. | 8 |
| | b) | Explain any two risk evaluation techniques. | 6 |
| 18 | a) | What are the different types of resources in project management? | 6 |
| | b) | What is cost schedule in project management? | 8 |

Module -5

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|----|----|---|----|
| 19 | a) | What does a quality plan include? | 5 |
| | b) | How to track project progress using Gantt chart? Describe with an example | 9 |
| 20 | a) | Explain about the project control cycle with diagram. | 10 |
| | b) | Explain the difference between Verification and Validation | 4 |
