

Course Code: ITT309

Course Name: MANAGEMENT FOR SOFTWARE ENGINEERS

Max Marks:100 Duration: 3hr

#### PART A

Answer all questions, each carries 3 marks

1. What are the disadvantages of waterfall model over agile?
2. Compare spiral model with prototyping model.
3. What are the four P's of project management spectrum?
4. What factors influence project success or failure?
5. What is portfolio management with its importance?
6. What is a SMART project objectives?
7. What are activity-on-arrow networks?
8. How to identify critical path in precedence network?
9. What are the techniques used to enhance software quality?
10. Explain CMMI. (10\*3=30)

#### PART B

Answer all questions, each carries 14 marks

11. a) Explain about any 4 types of agile methodology (10)
- b) What is sprint plan in scrum model. (4)

OR

12. a) Write about specialised process models. (9)
- b) Briefly explain unified process model (5)
13. (a) Explain management spectrum in software engineering (10)
- b) How are Software projects categorized? (4)

OR

14. a) Compare Traditional VS modern project management. (8)
- b) Explain the major activities carried out by a software project manager and the order in which these are carried out. (6)

15. Explain in detail the Steps in Project planning. (14)

OR

16. a) Write about different effort estimation technique. (9)
- b) What is the use of dependency diagram in program management (5)
17. a) Explain on the Forward pass and Backward pass analysis in CPM. (8)
- b) Explain two risk evaluation technique (6)

OR

18. a) What are the category types of resources in project management? (6)

- b)What is cost schedule in project management? (7)
19. a) What should a quality plan include. (4)
- b) How to track project progress using gantt chart? (6)

OR

20. a) Explain about project control cycle with diagram. (10)
- b) Explain the difference between Verification and Validation.(4)