



VALLIAMMAI ENGINEERING COLLEGE
SRM Nagar, Kattankulathur – 603203.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Year & Semester : II/ III
Section : M.E -CSE
Subject Code : CP7301
Subject Name : SOFTWARE PROCESS AND PROJECT MANAGEMENT
Degree & Branch : M.E – C.S.E.
Staff in charge : Ms. A. VIDHYA

UNIT-1

2 MARKS QUESTIONS:

1. What is process?
2. Define Personal Software Process?
3. What is Team Software Process?
4. Define Unified Process and agile Process?
5. What are the software development activities?
6. What are the types of software development model?
7. What is waterfall model and spiral model?
8. Define Iterative and incremental development?
9. What is agile development process?
10. Define Rapid Application development?
11. Define TSP principles.
12. What are the stages in SDLC?
13. What is prototype model?
14. What is the purpose of psp?
15. What are the levels in psp structure?
16. Difference between TSP and PSP.
17. Define time management and its major activities.
18. What are the principles of agile process?
19. What are core activities in software development process?
20. Write five frame work activities of PSP.

16 MARKS QUESTIONS:

1. Write short notes on software life cycle model?
2. What is iterative model? Discuss about inception phase it?
3. Explain about personal software process in detail.
4. Explain about team software process in detail.
5. With an example explain the software developed using PSP.
6. Write short notes on unified process?
7. Explain about the agile process in detail.
8. Write short notes on unified process and agile process.
9. With an example explain the software developed using TSP.
10. Compare PSP and TSP.

UNIT-2

2 MARKS QUESTIONS:

1. Define functional requirements.
2. Define quality attributes.
3. Give the advantages and disadvantages of elicitation techniques.
4. What are the different elicitation techniques?
5. What is brainstorming?
6. Define rapid prototyping.
7. Define QAW.
8. Define trade-off.
9. What is ACDM?
10. Give the goals for ACDM.
11. List out the stages in ACDM.
12. Define requirements document.
13. Define specification.
14. Give the example for requirements document.
15. What is change management?
16. Define requirement traceability.
17. Define traceability.

18. How to measure the quality attributes?
19. Give the reason why the quality attributes are not common?
20. Define prioritization and analysis.

16 MARKS QUESTIONS:

1. Explain functional requirements with an example.
2. Explain in detail about the quality attributes.
3. What is QAW? Give the brief explanation of QAW.
4. Explain in detail about the elicitation techniques.
5. Write short notes on brain storming and rapid prototyping.
6. Explain the stages in ACDM.
7. What is requirement traceability? What is the purpose of it? Explain types of traceability matrices?
8. Explain requirements documentation and specification using ACDM.
9. Explain ten principles involved in change management.
10. Write short notes on analysis, prioritization and trade-off.

UNIT-3

2 MARKS QUESTIONS:

1. What is use case point?
2. Define function point?
3. What is Environmental Complexity Factor?
4. What is Estimation?
5. Define COCOMO?
6. What is top down estimation
7. What is bottom up estimation?
8. Define work breakdown structure?
9. What is macro plan? Write its use
10. Define micro plan and Write its use
11. Define planning poker?
12. Define wideband Delphi?

13. Define Earned Value?
14. Define software project planning?
15. What is the procedure for Tracking the project schedule or plan?
16. Write the advantages of COCOMO II.
17. Write the drawbacks of COCOMO.
18. List the Estimation Techniques.
19. What is risk mitigation plan?
20. Write down the procedures for documenting the plan?

16 MARKS QUESTIONS:

1. Explain in detail about risk mitigation plans?
2. Describe in detail about ten software test estimation techniques?
3. Explain in detail about software effort estimation?
4. Describe in detail about use case points and function points?
5. Discuss overview of COCOMO II and explain about wideband Delphi.
6. What are macro and micro planning (new challenges to education)?
7. What is planning poker? Discuss in detail about its process and its benefits?
8. Explain the design principles of work breakdown structure?
9. Discuss wideband Delphi and earned value method?
10. Discuss the role of documenting and tracking the plan?

UNIT-4

2 MARKS QUESTIONS:

1. Define configuration identification?
2. Define Software configuration management?
3. List the procedures involved in software process?
4. Define naming convention?
5. What are the potential benefits of naming convention?
6. Define version control systems?
7. Define configuration control?

8. What is Quality Assurance?
9. List the Quality assurance techniques?
10. What is the role of QA in software assurance?
11. Define Total quality management?
12. Define Fagan inspection.
13. Define peer review?
14. What are the types of peer review?
15. Define test data?
16. Define bug tracking?
17. What do you mean by casual analysis?
18. Define unit testing?
19. What do you mean by acceptance testing?
20. What is mean by test case?

16 MARKS QUESTIONS:

1. What is mean by configuration attributes? Explain the process of identifying attributes to be configured?
2. Define Version control? Discuss the role in detail?
3. Discuss configuration management in detail?
4. Define Quality Assurance? Explain Quality Assurance techniques elaborately.
5. What is mean by peer review? Explain its relevance briefly.
6. What is testing? List its types and discuss in detail.
7. Explain about casual analysis defects in detail?
8. Discuss the role of development of test cases in brief?
9. Explain in details about Fagan inspection?
10. Define naming convention? Explain naming conventions in detail.

UNIT-5

2 MARKS QUESTIONS:

1. What is project management?
2. What are the five essential elements of project management?
3. How process architecture differs from process design?
4. List out the various process data.
5. Give the life cycle of workflow.
6. What are the various states of process?
7. Define process model
8. Draw the diagram for abstraction level of processes.
9. What are the goals of process model?
10. Explain ETVX concept.
11. Draw the diagram for ETVX.
12. What are the steps involved in process baselining?
13. Define CMMI.
14. List out the various levels of CMMI model.
15. What is sixsigma?
16. Define software process.
17. What are the several key roles identified by sixsigma for its successful implementation?
18. What are the two basic versions of CMMI?
19. List out the objectives of process measurement.
20. What are the six sigma methodologies?

16 MARKS QUESTIONS:

1. Explain the workflow of the process with a neat diagram.
2. Discuss the process modeling technique in detail.
3. Explain in detail about process definition using ETVS.
4. What are the various methods of process assessment and improvement?
5. Explain CMMI model framework in detail.
6. Explain model based process assessment and inductive process assessment.

7. With explanation List out the steps for process baselining
8. Explain the process architecture in detail.
9. Discuss the relationship between process elements.
10. What are the process definition techniques? Explain them in detail.