

JAYA ENGINEERING COLLEGE
DEPT OF CSE
CS6403-SOFTWARE ENGINEERING

UNIT 1

1. Explain any two perspective process models in detail. (16)
2. a) Explain the specialized process model in detail. (8)
b) Explain software process framework in detail. (8)
3. Discuss software project estimation techniques in detail. give suitable examples. (16)
4. Explain the risk management process briefly.
5. Write Short note on
 - i) Scheduling (8)
 - ii) Earned value analysis (8)

UNIT 2

1. Explain the functional and non-functional requirements in detail. (16)
2. Explain the requirement engineering process in detail. (16)
3. Explain the semiformal method-structured system analysis in detail (8)
Explain the semiformal method-Entity relationship Modeling in detail (8)
4. Explain PERTI Nets with a case study in detail.
5. Write Short notes on Data Dictionary. (8)
Write short note on Software Requirement Document (8)

UNIT 3

1. What are the characteristics of good design? discuss briefly about architectural design (16)
2. Explain clearly the concepts of coupling and cohesion. for each type of coupling, give an ex of 2 components coupled in that way (16)
3. Explain the components of a data flow diagram. draw a dfd level 3 for railway reservation system (16)
4. Explain the core activities involved in user interface design process with necessary block diagram? (16)
5. Name the commonly used architectural styles. explain each with necessary diagrams (16)

UNIT 4

1. Explain the various methods of white box testing with an example (16)
2. Using testing strategies for conventional software. state how a testing methodology can be worked out. explain (16)
3. Explain elaborately about the various types of system testing? (16)
4. (a) Enumerate the various types of software test which type of testing is suitable for boundary condition. justify? (8)
(b) why is testing important? (4)
(c) Narrate the path testing in detail (4)
5. Discuss the importance of the following
 1. validation testing (4)
 2. validation test criteria and configuration review (4)
 3. debugging process (4)
 4. alpha and beta testing? (4)

UNIT 5

1. Explain in detail about project scheduling. (16)
2. Explain in detail about COCOMO II and Make/Decision. (16)
3. Explain in detail about Risk management and its RMMM plan. (16)

4. Write about Estimation techniques FP based and LOC Based. (16)
5. Write about
- a. Earned value analysis (8)
 - b. Process and Project metrics (8)

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