CM-403, SOFTWARE ENGINEERING – PREFINAL PAPER

PART-A

Answer all questions. Each question carries three marks. 10X3=30 Marks

1. Explain how to choose an appropriate life cycle model for a project.
2. What is the principle for analytical project estimation technique?
3. Write the features of a good software engineer.
4. What are the different risks that affect a software project?
5. List the problems to be analysed by the analyst.
6. What do you mean by traceability?
7. Write any three features of Selenium tool.
8. List the activities carried out in testing.
9. Explain any one fault based testing approach.
10. Differentiate software and hardware reliability.

PART-B

Answer any five questions. Each question carries ten marks. 5X10=50 Marks

11(a) Explain spiral model and justify how it can be viewed as a meta model. (6M)
(b) Explain data flow oriented design. (4M)
12(a) Explain how function point metric can be used for estimating project size. (6M)
(b) Explain how PERT charts are constructed. (4M)
13(a) Explain how activity network is constructed and critical path is found. (6M)
(b) Explain Putnam's work for estimating the staff. (4M)
14(a) What are functional requirements and explain how are they identified. (6M)
(b) Give examples of bad SRS document (4M)
15(a) Define and classify coupling. (5M)
(b) Differentiate graphical user interface Vs text-based user interface. (5M)
16(a) List and explain program analysis tools. (5M)
(b) List and explain different integration testing techniques. (5M)
17(a) Explain different debugging approaches. (5M)
(b) Explain different coverage based testing approaches. (5M)
18(a) Explain different levels in Capability Maturity Model (5M)
(b) Explain evolution of quality systems. (5M)