CTH EDUCATION

Software Engineering important questions for semester examination (CSE-6th Sem)

1. What is software engineering? Is it art, craft or a science? Discuss.
2. Why Software Engineering required? What are the goal of software engineering?
3. What are the component of a software? Discuss how a software differs from a program.
4. What is software life cycle? Discuss the generic waterfall model.
5. Sketch a neat diagram of spiral model of software life cycle.
6. Compare the waterfall model and the spiral model of software development.
7. Difference between Traditional and Agile Software Development.
8. Describe the various steps of requirement engineering. Is it essential to follow these steps?
9. Explain different types of requirement in brief.
10. What do you mean by "Requirement Elicitation"? Discuss any two techniques in detail.
11. What is SRS? List out the advantage of SRS.
12. What are various activities during software project planning?
13. Explain the concept of function points. Why FPs are becoming acceptable in industry?
14. Discuss various types of COCOMO mode. Explain the phase wise distribution of effort.
15. What is meant by a code walk through? Explain with examples.
16. Suppose that a project was estimated to be 400 KLOC. Calculate the effort and development time for each of the three modes i.e. organic, semidetached and embedded.
17. What are risk management activity?
18. What do you understand by software design?
19. Discuss the difference between object oriented and function oriented design.
20. What is difference between a flow chart and a structure chart?
21. Differentiate between cohesion and coupling.
22. Explain Data flow diagram and Data dictionary in details.
23. What is software testing? Discuss the role of software testing during software life cycle.
24. Differentiate between black box testing and white box testing.
25. What is regression testing?
26. What do you understand by structural testing?
27. What are various kinds of functional testing? Describe any one in detail.
28. What is the difference between alpha testing and beta testing?
29. Define the term project. Explain software project management in brief.
30. What is project scheduling? Explain different project scheduling techniques in brief.
31. Explain CPM & PERT with suitable example.
32. Differentiate between CPM & PERT.
33. Write short notes on:
    a. Work breakdown structure(WBS)
    b. Activity network