

1. What is software project management?

(opinion based question.)

2. Why do we need to manage the entire software development?

Why can't it be unmanaged?

(Opinion based)

3. Differentiate contract project management and in-house project management/technical project management.

4. State and explain ISO 12207 software development life cycle.

5. Who are stakeholders in a software development?

6. State and explain principle project management processes.

7. Explain W5HH principles Barry Boehm.

8. Write a note on project portfolio management.

9. Explain cost benefit analysis.

10. Explain the process of risk identification and ranking.

11. Write a note on strategic programme management.

12. State and explain step wise project planning.

(10 steps. Draw the chart.)

13. What do you mean by project scope and project objective?

14. Why project documentation is important?

(Opinion based but should be technical.)

15. Why resources allocation is needed?

16. How do companies come to a decision whether to purchase a software or to build it?

17. Compare waterfall model with spiral model.

18. What is software prototyping?

19. Write a note on Atern method of software development.

(Dynamic system development method)

20. State and explain agile approach of software development.
21. When and why, extreme programming (XP) is required?
22. Define the role of scrum master in a scrum model.
23. Write a note on Rapid Application Development.
24. Write a note on software effort estimation.
25. What is a bottom up estimation in software effort estimation?
26. Explain constructive cost model (COCOMO).
27. Differentiate cost estimation and effort estimation.
28. Write a note on activity planning.
29. What is a work breakdown structure (wbs)? Explain.
30. Differentiate between a gantt chart and a pert chart.
31. Explain critical path development during activity planning.
32. Explain activity float.
33. Explain risk management and it's importance
34. Write a note on risk identification process
35. Explain risk planning in brief
36. What do you mean by a contingency plan
37. State and explain Barry Boehm's top 10 risks and their counter measures
38. Explain Monte Carlo simulation
39. Write a note on resource scheduling
40. Write a note on cost scheduling
41. Explain critical path method
42. Explain with diagram project control cycle
43. What is RAG reporting (Red, Amber ,Green)

44. Why is cost monitoring and control required
45. Explain the terms given below
  - a) scheduled variance
  - b) time variance
  - c) cost variance
46. Write a note on configuration management process
47. State and explain different types of contracts
48. Differentiate open tendering process and restricted tendering process
49. State and explain stages in contract placement
50. Is it necessary to manage people while software development is in process
51. Write a note on organizational behavior
52. State and explain Maslow's hierarchy of needs
53. Write a note on stress management
54. Write a note on code of conduct, ethical and professional concerns in software development environment
55. What is a team. State the steps for becoming a team
56. List down the points to enhance group performance
57. List down the obstacles in decision making
58. Explain the terms
  - a) team heedfulness
  - b) Egoless programming
  - c) Chief programmer teams
59. Write a note on functional format versus project format
60. What are dispersed and Virtual teams. How helpful dispersed and Virtual teams be there in software development process
61. Explain good leadership techniques

62. As a project manager while recruiting a personal in your team what qualities you will identify in a fellow member
63. State the importance of software quality in a software development process
64. State and explain software quality models(note: There are three models)
65. Write a short note on ISO 9126
66. Write a note on product versus process quality management
67. Explain quality management systems in context to ISO 9001:2000
68. Explain Capability Maturity Model (CMM)
69. Mention the techniques to help enhance software product quality
70. Explain clean room software development process
71. Explain levels of testing
72. Why testing is important and explain test automation
73. Specify the reasons for project closure
74. What is a project closure report and why it is important to make it
75. What is a post implementation project review