Question Bank of Software Engineering

1. **What is Software?**
2. **List and Explain the kinds/types of Software Products.**
3. **List the seven broad categories of Software Applications.**
4. **List the new categories of Software Applications.**
5. **Define Software Engineering.**
6. **Explain the goal of Software Engineering.**
7. **Why Software Engineering is important? Explain in short.**
8. **List and Explain the characteristics of good software.**
9. **List the various steps/ phases of Software Engineering.**
10. **What do you mean by Requirement Gathering?**
11. **What is High Level Design?**
12. **What is Low Level Design?**
13. **How Development phase works?**
14. **Describe Testing Phase in short.**
15. **What is deployment?**
16. **Explain the need for maintenance.**
17. **What is Document Management?**
18. **Name the list of documents used during Software Engineering Projects.**
19. **Describe the Operations in Document Management.**
20. **List the Features of Document Management.**
21. **What is Historical Documents?**
22. **How E-mail is useful in Document Management?**
23. **Explain about Code in Document Management?**

24. **What is Code Documentation?**
25. **Explain about Application Documentation.**
26. **What is Project?**
27. **List the characteristics of Project.**
28. **What is Project Management? Explain in brief.**
29. **List and Explain the various duties of Project Manager.**
30. **When to use PERT Chart? Explain in short.**
31. **List the advantages and disadvantages of PERT Chart.**
32. **Define Critical Path Methods.**
33. **List the advantages and disadvantages of Critical Path Methods.**
34. **What is Gantt Chart? What are its uses?**
35. **Explain the advantages and disadvantages of Gantt Chart.**
36. **Define Risk Management.**
37. **List the various steps carried out for Risk Management.**
38. **What do you mean by Supplier Risk, Resource Risk and Budget Risk.**
39. **Explain Risk Quantification.**
40. **List the Four Risk Response Strategies.**
41. **Define Requirement Gathering OR What do you mean by Requirement Gathering?**
42. **Explain or List the importance of Requirement Gathering.**
43. **Give OR Explain the Characteristics of Good Requirement.**
44. **What are the various categories of Audience-oriented requirements?**
45. **What is FURPS? List FURPS's categories.**
46. **List and Explain the categories of FURPS+.**

47. **List the various techniques of Requirement Gathering.**

48. **Explain: i) UML ii) Use Stories iii) Use Cases**

49. **Differentiate between Validation and Verification.**

50. **List the types of security needed in High-level Design.**

51. **What do you mean by User Interface.**

52. **What is Internal and External Interfaces in High-level Design.**

53. **Write about following architecture along with Diagram:**

    Monolithic, Clint/Server, Component-Based, Service Oriented, Data-Centric, Event-Driven, Rule-Based and Distributed

54. **State the use of Reports in High-level Design.**

55. **List the other kinds of output in High-level Design.**

56. **What is training? Why its needed? Explain.**