1. What is software engineering?
2. What is need of software engineering?
3. What are characteristics of good software?
4. List and explain different types of applications.
5. Explain SDLC.
6. What are coding guidelines?
7. Explain manual testing.
8. What is unit testing?
9. Write a note on integration testing.
10. What is software maintenance? Types of software maintenance.
11. What is software re-engineering?
12. Explain different types of requirements.
13. Draw and explain sequence diagram of ATM withdrawal.
14. Write a note on Software processes.
15. What is waterfall model?
16. What is prototype model?
17. What is iterative model?
18. What is agile method?
19. Explain data flow diagram.
20. Draw and explain microwave oven model.
21. Draw and explain library semantic model.
22. What is multiple inheritance model?
23. Explain Object behavior modeling.
24. Write a note on software design process.
25. What is system decomposition?
26. What is repository model?
27. What is client server model?
28. What are different decomposition styles? Explain object model.
29. Write a note on control styles.
30. Explain OSI reference model.
31. What is user interface design process? What are 3 golden rules of user interface design?
32. What questions should be answered during user analysis process?
33. What is error message? What are guidelines for error messages?
34. What is software project management?
35. What are different management activities?
36. Explain risk management.
37. How to motivate people in an organization?
38. How team spirit is important?
39. What is software quality? What are quality factors to be considered?
40. What are different quality management activities? Explain any one.
41. Write a note on Software measurement and metrics.
42. Write a note on process improvement activities.

43. What is process analysis?
44. What is process change process?
45. Differentiate between verification and validation.
46. Write a note on testing and debugging.
47. What do you mean by inspection process, procedure and roles.
48. Explain software testing life cycle.
49. What is top-down estimation?
50. What is bottom-up estimation?
51. Explain cocomo model.
52. What is object point estimation?
53. What is productivity estimates?
54. Write a note on web service.
55. Describe service oriented approach.
56. Write advantages of service oriented approach.
57. What is service oriented architecture?
58. What are benefits of service oriented architecture?
59. Write a note on Web service description language.
60. What is service engineering?
61. What is service engineering process?
62. What are stages of service engineering?
63. List and explain different interface design and stages.
64. What is re-use based software engineering?
65. What are benefits of software re-use?
66. Explain model-view controller.
67. What is distributed system?
68. What are characteristics / benefits of distributed system?
69. Different factors affecting software product quality.
70. Write a note on CMMI model.