Tutorial Unit 4 (Software Engineering)
PGDCA I Semester
PS01CDC35: Foundation of Software Development
Prof. Priti Srinivas Sajja

Short Questions/Objective Questions

1. Define Software.

2. List types of software. Explain each in one line.

3. List only the characteristics of software.

4. What are the desirable qualities of software?

5. What is the usability of software?

6. What is the reliability of software?

7. What is the maintainability of software?

8. Define system software.

9. Give an example of the system software.

10. Define application software.

11. Give an example of the application software.

12. Define firmware.

13. Define software engineering.

14. List goals of software engineering.

15. List need of software engineering.

16. List the three models of software development process in engineering.

17. List two advantages of the waterfall model.

18. List limitations of the waterfall model.

19. List main advantage of the spiral model.

20. List four basic phases of a spiral model.

21. Define software testing.

22. List major testing types.

23. Define unit testing.

24. Define integrated testing.

25. Define system testing.

Big Questions

1. Define software. Discuss components of software by giving its diagram in detail.

2. List and explain the characteristics of software.

3. Explain various types of software in detail.

4. Define software engineering. Also discussthe goal of software engineering.

5. Describe the working of the waterfall model of software engineering by giving its diagram.

6. Describe the working of the iterative model of software engineering by giving its diagram.

7. Describe the working of the spiral model of software engineering by giving its diagram.

8. Write a short note on software testing.

OR

9. Describe unit testing, integrated testing, and system testing in detail.