

SNS COLLEGE OF ENGINEERING

An Autonomous Institution

(Accredited by NAAC-UGC with 'A' Grade, Approved by AICTE & Affiliated to Anna University)

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Year 2024-2025(EVEN)

UNIT I - SOFTWARE PROCESS AND AGILE DEVELOPMENT

QUESTION BANK

PART A

1. What is the impact of reusability in software development process?
2. Explain the component based software development model with a neat sketch.
3. What are the characteristics of software?
4. Software doesn't wears out. Justify
5. What are the layers of software engineering?
6. Write down the generic process framework that is applicable to any software project.
7. List the goals of Software Engineering
8. Give two reasons why system engineers must understand the environment of a system.
9. What are the two types of software products?
10. What is Software Engineering? What are their applications?
11. List out evolutionary software process model.
11. What are the difference between product and process?
12. What are the advantages and disadvantages of Waterfall Model?
13. What are the advantages and disadvantage of Incremental Model?
14. What are the advantages and disadvantages of Spiral Model?
15. Define Computer based system and specify its components.
16. What are the advantages and disadvantages of Prototyping Model?
17. Depict the relationship between work product, task, activity and system.
18. List two deficiencies in waterfall model. Which process model do you suggest to overcome each deficiency?
19. What are the pros and cons of Iterative software development models?

20. What is legacy software? What are characteristics of legacy software?
21. What is an agile process?
22. List out the principles of Agile.

PART B

1. Explain the following: (i) waterfall model (ii) Spiral model (iii) Prototyping model
2. Discuss the various life cycle models in software development.
3. Compare and contrast the different lifecycle models.
4. Discuss in detail about any two evolutionary process models.
5. Explain in detail about the software process.
6. Which process model is best suit for risk management? Discuss in detail with an example. Give advantages and disadvantages of the model.
7. List the principles of agile development.
8. Explain in details about extreme programming XP process.
9. Explain about agile process.

