

# K K Wagh Institute of Engineering Education & Research Department of Computer Engineering

**A. Y.:** 2023 – 2024

**Semester:** II **Class:** SY (Computer Engg) **Div:** A & B

**Subject:** Software Engineering & Project Management

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**Question Bank**

**Unit - I**

1. Describe a process framework in your own words. When we say that framework activities are applicable to all projects, does this mean that the same work tasks are applied for all projects, regardless of size and complexity? Explain
2. Umbrella activities occur throughout the software process. Do you think they are applied evenly across the process, or are some concentrated in one or more framework activities?
3. Provide examples of software project that would be amenable to the waterfall model.
4. What process adaptations are required if the prototype will evolve into a deliverable system or product?
5. Is it possible to combine process models? If so, provide an example.
6. Explain Waterfall model with a neat diagram and list applications of the same.
7. Explain Incremental model with a neat diagram and list advantages and disadvantages of the same.
8. Explain Prototype model with a neat diagram and list advantages and disadvantages of the same.
9. Explain Spiral model with a neat diagram and list applications of the same.
10. What are the advantages and disadvantages of developing software in which quality is “good enough”? That is, what happens when we emphasize development speed over product quality?
11. Differentiate between Agile process model and prescriptive process model.
12. Explain about Agile process model. How agile methodology helps project manager?
13. Write short note on agile tool JIRA.
14. What is extreme programming (XP) in agile?
15. Explain Scrum agile model with a suitable diagram.
16. Explain FDD agile model with a suitable diagram.

**Unit - II**

1. Why is it that many software developers don’t pay enough attention to requirements engineering? Are there ever circumstances where you can skip it?
2. You have been given the responsibility to elicit requirements from a customer who tells you he is too busy to meet with you. What should you do?
3. Discuss some of the problems that occur when requirements must be elicited from three or four different customers.
4. Why do we say that the requirements model represents a snapshot of a system in time?
5. Develop a complete use case for the following activity: Making a withdrawal at an ATM
6. What do use case “exceptions” represent?
7. What does win-win mean in the context of negotiation during the requirements engineering activity?
8. Develop a complete use case for the following activity: Booking a movie ticket from BookMyShow platform.
9. What do you think happens when requirement validation uncovers an error? Who is involved in correcting the error?
10. Write short note on Negotiating and Validating requirements.
11. Justify “The analysis and design process for user interfaces is iterative”.
12. Explain the quality attributes considered in software design.
13. Explain various design concepts consider during design.
14. Explain in detail the user interface design issues.
15. Discuss the importance of data abstraction in the software design.
16. Illustrate the term cohesion and coupling in context of software design? How are these concepts useful in arriving at a good design of a system?
17. What do you understand by refactoring? Give the importance of refactoring in improving quality of software.
18. Short note on:
19. Modularity in software design
20. Separation of concerns