Subject: Software Engineering   **Class: SEIT (Sem II)**
Question Bank on Unit I to II

Note: These are sample questions from each unit. Questions will not be limited to this question bank for final exam.

Unit I: Introduction To Software Engineering
1. State and explain any 5 myths of software development and its reality.
2. Compare between evolutionary and Incremental Models.
3. Explain generic process model of software development with the diagram.
4. What are different process models? Explain generic process model.
5. What is software? What are the characteristics of software?
6. Explain layered technology in software engineering.
7. Discuss XP values and XP process in detail.
8. Define refactoring and pair programming. Mention their advantages.
9. Write the manifesto for agile software development.
10. Compare between Iterative and Incremental Model. [5M]
11. What are the principles of Agile Software Development Model? [5M]
12. Differentiate between hardware and software. Explain bath tub curve. [5M]
13. Explain with example spiral model with its merits and demerits.

Unit II: Requirements Engineering & Analysis
1. List and explain types of Functional requirement.
2. Explain Software requirement specification in brief.
3. Explain class based modeling with an example.
4. Explain in detail requirement engineering functions.
5. Draw and explain Use case Diagram for library management system.
6. Draw and explain Data flow Diagram for library management system.
7. For "Online shopping system", assume suitable scope of the system. Draw class and use case diagram.
8. How scenario modeling is performed? Develop an activity diagram for railway reservation system.
9. Explain data flow model with example and diagram.
10. What is user story? Which are the INVEST characteristics used in writing good user stories?
11. What is the difference between requirement inception and requirement elicitation? Why requirement elicitation is difficult?
12. What is requirement elicitation? Write the elicitation work products.
13. What is meant by normal and exciting requirements? How requirements are validated?

14. What is critical path? Explain wit example how critical path method is used to estimate project duration.
15. How to prioritize software requirements based on Kano Analysis.
16. Write a short note on Requirement Traceability Matrix (RTM).
17. What is meant by Performance requirement? What are the measures of it?
18. Explain various stakeholders involved in the project along with their view points.