PART – A (25 Marks)

1. Write the difference between Iteration and Incrementation. (3)
2. What are the different factors that influence the architecture of a system? (2)
3. Define use case model. What is its use? (2)
4. Define Testing. (2)
5. “UML is a language for construction”. Justify (2)
6. Define the following Relationships with notations. (3)
   (a) Dependency  (b) Association  (c) Realization
7. Define Interface and package with notations. (3)
8. Define composite and history states of a state machine. (3)
9. Write the difference between sequence and collaboration diagrams. (2)
10. Define component and deployment diagrams. (3)

PART – B (50 Marks)

11. (a) Explain the life cycle of unified process. (5)
    (b) Write steps for software development process. (5)
12. Explain requirements capture steps with an example. (10)
13. List and briefly explain the elements of UML. (10)
14. (a) Define a class and explain the concept of classes and their relationships with an example. (5)
    (b) Write steps to implement forward engineering. (5)
15. Explain activity diagram with swim lanes and synchronization bars and illustrate with an example. (10)
16. (a) Define use case and elements present in use case diagrams. (5)
    (b) Explain different stereo types that apply to use cases. (5)
17. Define the following: (3)
   (a) Deployment collaboration
   (b) Patterns and frameworks (4)
   (c) Systems and models (3)

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