



8. Which interaction diagram focuses heavily on the structural organization of objects rather than the time-ordering of messages?
  - A. Timing Diagram
  - B. Sequence Diagram
  - C. Collaboration Diagram
  - D. Deployment Diagram
9. Which design pattern provides a surrogate or placeholder for another object to control access to it?
  - A. Decorator
  - B. Singleton
  - C. Proxy
  - D. Adapter
10. The UML relationship used to make up a large use case by combining simpler, reusable use cases is called:
  - A. <<include>>
  - B. <<extend>>
  - C. Generalization
  - D. Association

### **Part - B**

**(Do as Directed)**

**(10 Marks)**

1. Define Polymorphism in one sentence.
2. A class is simply an instance of an object that represents real-world entities. (True/False)
3. \_\_\_\_\_ is a web application attribute that refers to the overall visual "look and feel" of the application.
4. The Web engineering process typically uses an agile or incremental model to accommodate frequent changes and short timelines. (True/False)
5. What does the acronym OMG stand for in the context of UML standards?
6. A \_\_\_\_\_ diagram describes the hardware used in system implementations, execution environments, and deployed artifacts.
7. Collaboration diagrams are optimally suited for portraying highly complex interactions among thousands of objects. (True/False)
8. The "extends" notation in a Use Case diagram is often used to extend functionality to deal with errors or alternative exceptions. (True/False)
9. The \_\_\_\_\_ design pattern allows a user to add new functionality to an existing object dynamically without altering its base structure.
10. Define Latency in the context of Web application performance.