**ABES Engineering College, Ghaziabad**

# B. Tech Odd Semester Sessional Test-2 Question Bank

**Semester: V Course Code: KCS054 Course Name: OOSD**

1. What do you mean by sequence diagram? Explain various terms and symbols used in a sequence diagram. Describe the following using sequence diagram : (i) asynchronous messages with/without priority. (i) broadeast messages
2. Discuss the significance of sequence diagrams. How the following is implemented using sequence Diagrams
   * 1. Broadcast messages
     2. Asynchronous messages with/without priority.
     3. Callback Broadcast mechanism messages
3. Draw Sequence diagram of ATM.
4. What do you understand by basie behavioural modeling ?
5. Write a short note on use case diagram and time diagram with suitable diagram and their utility in system design
6. Define package. Explain the package diagram with suitable diagram.
7. What do you mean by activity diagram ? Explain in detail.
8. Design **activity** diagram for **ATM** which display all the activities performed during the transaction process of ATM Explain with an example.
9. Define state machine? Draw a state machine diagram for answering a telephone call.
10. List the properties of a state chart diagram. Draw a state chart for ATM.
11. What do you mean by event What are the types of event explain with example?
12. Explain use case with example. How are the diagrams divided?
13. Discuss the purpose of **Use Case Diagram** in software design. Draw a Use Case Diagram for an “Online Shopping System “using 'include' and 'extends' relationships "
14. Describe in brief component diagram
15. Explain the deployment diagram. What is the difference between components and nodes?
16. Draw a Deployment Diagram for Mobile Banking Android Services.
17. Write short note on object-oriented analysis and object oriented design.
18. Write short note on object design.
19. How can we design an algorithm? Explain
20. What are the three models in OMT? How is the object oriented analysis and design attached with OMT? Explain with an example.
21. Describe the relation of functional model, object model and dynamic models. What is relationship and difference between (Object oriented analysis) and OOD (Object oriented design) ?
22. What do you mean by the optimization of design? Discuss the design optimization with suitable example using diagrams.
23. Describe implementation of control in object-oriented design
24. What do you mean by object representation?
25. Describe physical packaging with example.What are the different aspects of packaging?
26. What do you mean by documentation? What are the various considerations in documentation designing? Explain
27. What do you mean by multiple inheritances? Explain it with an example. Can you implement multiple inheritances in Java?
28. Describe documenting design considerations. How do we perform adjustment of inheritance?
29. Prepare a DFD for computing the volume and surface area of a cone. Inputs are height and the radius of the base of the cone. Outputs are volume and surface area. Discuss some ways of specifying operations.
30. Describe the structured analysis and structured design approach with an example.
31. Compare the OMT methodology with SA/SD methodology. Explain with suitable example.
32. Write short note on Jackson Structured Development
33. How do you map the object-oriented concepts using non-object-oriented languages? Explain with an example.
34. Write short note on translating object-oriented design into an implementation.
35. Describe passing arguments to method with example.
36. Describe implementation of inheritance with example
37. Describe the various features of object-oriented languages. Also compare any two object-oriented languages.
38. Explain each of the following with in reference to object-oriented programming style with an example: Reusability, Robustness, Extensibility, Abstraction
39. Compare Abstraction and Encapsulation.