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**Question Paper Code: 99823**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Professional Elective

Information technology

19UIT923- OBJECT ORIENTED SYSTEM DESIGN

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10 x 2 = 20 Marks)

1. What are the building blocks of UML? CO1-U
2. Summarize the advantages of object oriented development? CO1-U
3. Mention the purpose of Use case diagram CO1-U
4. Define Multiplicity with an example. CO1-U
5. Draw the symbols present in activity diagram CO1-U
6. What are the types of messages that can be used in sequence diagram? Give example. CO2-App
7. Define framework with an example CO1-U
8. Give one real time example to show the concepts of Patterns CO2-App
9. Suggest some ideas to resolve the issues while testing CO1-U
10. Draw the component diagram for online ordering system CO2-App

PART – B (5 x 16= 80Marks)

11. (a) Explain in detail about Object Oriented System Design Methodology. CO1-U (16)  
Or  
(b) Write a detailed problem statement for “ERP for an educational institution” CO1-U (16)
12. (a) Draw the use case diagram for Online shopping Application CO2-App (16)  
Or  
(b) Draw and explain the use case diagram for a library management system. CO2-App (16)

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| 13. | (a) Draw the interaction diagrams for Passport Automation system<br>Or  | CO2-App | (16) |
|     | (b) Construct the state chart and activity diagram for foreign trading system.  | CO2-App | (16) |
| 14. | (a) Explain Jacobson methodology with real time applications.<br>Or   | CO1-U   | (16) |
|     | (b) (i) Compare and Contrast Booch and Rumbaugh Methodologies   | CO1-U   | (8)  |
|     | (ii) Compare the Functional model of an inventory control system<br>(Consider from raw material purchases to shipping of finished goods). | CO1-U   | (8)  |
| 15. | (a) Draw the Component and Deployment diagram for Online Shopping Application<br>Or   | CO1-U   | (16) |
|     | (b) With Test Cases , Explain the Object Oriented System Testing types and phases   | CO1-U   | (16) |