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Question Paper Code: 99823

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

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 is an object? Give example. CO1 –U
2. Summarize the advantages of object oriented development. CO1 –U
3. Classify the three kinds of actors in use case. CO1 –U

4.

MyClass
+attribute1 : int -attribute2 : float #attribute3 : Circle
+op1(in p1 : bool, in p2) : String -op2(input p3 : int) : float #op3(out p6) : Class6*

CO2-App

Identify the two types of visibility of the attributes for the above class.

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. CO1 –U
7. What is macro development process? CO1 –U
8. Give one real time example to show the concepts of Patterns. CO1 –U
9. Where do we use silk test? CO1 –U
10. Give an example for bottom up integration testing. CO1 –U

PART – B (5 x 16= 80 Marks)

11. (a) Explain in detail object oriented system development. CO1 –U (16)
Or
(b) Briefly discuss the phases of object oriented systems development life cycle. CO1 –U (16)

12. (a) Draw the use case diagram and class diagram for activities involved in ordering food in a restaurant from the point when the customer enters a restaurant to the point when he leaves the restaurant. CO2 App (16)
- Or
- (b) Draw the use case and class diagram for library management system. CO2 App (16)
13. (a) Draw the sequence and collaboration diagram for a railway reservation system. CO2 App (16)
- Or
- (b) Draw the activity diagram, state chart diagram and package diagram for an ATM system. CO2 App (16)
14. (a) Compare macro and development process in Booch methodology CO1 –U (16)
- Or
- (b) Explain in detail patterns with suitable applications. CO1 –U (16)
15. (a) Draw the component and deployment diagram for library management system. CO2 App (16)
- Or
- (b) Consider a scenario, where you want to enroll your name to a club. The enrollment is restricted with the following constraints CO2 App (16)
- (i) Individuals above the age of 18 only can enroll
 - (ii) The applicant must be an Indian citizen
 - (iii) Perform class testing for these two constraints.