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Question Paper Code: U5804

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

Fifth Semester

Information technology

21UIT504- OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Why do we need object oriented analysis for solving problems? CO1 -U
2. Define Requirements and mention its types. CO1 -U
3. Give one example for include and extend relationship between actors. CO1 -U
4. Draw use-case Diagram for payroll system. CO1 -U
5. Analyze the statement is True or False and identify the diagram name.
This diagram is used to describe the states of different objects in its life cycle. CO3 -Ana
6. Where do you use the sequence diagrams? CO1 -U
7. What are the nine principles of GRASP? CO1-U
8. Why is object-oriented methodology important? CO1-U
9. What are different levels of OO testing? CO1-U
10. Where do we use silk test? CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Write a detailed problem statement for “Smart Dustbin” CO1 -U (16)
Or
(b) Write a detailed problem statement for a “Smart home Application” CO1- U (16)
12. (a) Draw the use case diagram for “Online shopping Application”. CO2- App (16)
Or
(b) Draw the Class diagram for “Online Ticket Reservation”. CO2- App (16)

13. (a) Draw and explain the package diagram for “Student information system”. CO2- App (16)
- Or
- (b) Draw the interaction diagrams for “Passport Automation system”. CO2- App (16)
14. (a) Differentiate Jacobson and Rumbaugh Methodologies with suitable examples. CO1- U (16)
- Or
- (b) Explain Unified approach with suitable examples. CO1- U (16)
15. (a) What is object-oriented testing? Explain the Object Oriented System Testing types and phases CO1- U (16)
- Or
- (b) Draw the Component and Deployment diagram for Attendance management system. CO1-U (16)