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Question Paper Code: 59831

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

Elective

Information Technology

15UIT931 - OBJECT ORIENTED SYSTEM DESIGN

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- Which of the following testing is done when the product is delivered to the user CO1- R
(a) Alpha (b) Beta (c) System (d) All of the above
- Identify the actor to find the behavior of the system. CO2- R
(a) Primary (b) Support (c) Offstage (d) Secondary
- OCL stands for CO3- R
(a) Object Constraint Language (b) Object Control Language
(c) Object Communication Language (d) Object Class Language
- If you are working on real-time process control applications or systems that involve concurrent processing, you would use a CO4- R
(a) Activity diagram (b) Sequence diagram
(c) State chart diagram (d) Object diagram
- Client side applications are attached to _____ CO5- R
(a) Client (b) Server (c) Web page (d) Cookies

PART – B (5 x 3= 15 Marks)

- Write the role of object in the design of OOSD model. CO1- R
- Compare composition and aggregation. CO2- R
- What do you mean by state dependent object? Give an example. CO3- R

9. Discuss the basic notation of component diagram CO4- R
10. Mention the various issues in object oriented testing. CO5- R

PART – C (5 x 16= 80Marks)

11. (a) Explain Object Oriented System Development life cycle with suitable example. CO1-U (16)

Or

- (b) What do you mean by Unified Process in OOAD ? Explain the phases with suitable diagrams. CO1-U (16)

12. (a) Draw use case diagram for ATM system and also discuss the actors, scenarios and use cases in the same ATM system. CO2- U (16)

Or

- (b) Design the class diagram for hotel management system with the appropriate relationships. CO2- U (16)

13. (a) Describe in detail basic notations of sequence and collaboration diagram with suitable examples. CO3- U (16)

Or

- (b) (i) Draw a state diagram for Microwave Oven. CO3- U (8)
- (ii) Discuss the activity diagram with suitable examples. CO3- U (8)

14. (a) Discuss Booch and Rumbaugh Methodologies with the suitable example. CO4- U (16)

Or

- (b) Identify the difference between Patterns and framework and describe the concept with a real time application. CO4- U (16)

15. (a) Draw the UML Deployment and Component diagrams for the Online Banking Operations. CO5- U (16)

Or

- (b) Write class testing for stock maintenance system. CO5- U (16)