

25-04-2023

Reg. No.

Question Paper Code

11809

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023

Sixth Semester

Computer Science and Engineering

(Common to Information Technology)

CS8592 - OBJECT ORIENTED ANALYSIS AND DESIGN

(REGULATIONS 2017)

Duration: 3 Hours

Max. Marks: 100

Answer ALL Questions

PART - A (10 × 2 = 20 Marks)

- | | <i>Marks,
K-Level, CO</i> |
|---|-------------------------------|
| 1. Distinguish between Object oriented and Object based concepts. | 2,K2,CO1 |
| 2. Define Use case. | 2,K1,CO1 |
| 3. What is Domain model? | 2,K1,CO2 |
| 4. Write the purpose of sequence diagram. | 2,K1,CO2 |
| 5. Compare State and Activity diagram. | 2,K2,CO3 |
| 6. What is Deployment diagram? | 2,K1,CO3 |
| 7. What is low coupling and high cohesion? | 2,K1,CO4 |
| 8. Define Adapter. | 2,K1,CO4 |
| 9. List the purpose of testing. | 2,K1,CO5 |
| 10. What is system testing? | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|---|-----------|
| 11. a) Explain in detail about Unified Process with neat diagram. | 13,K2,CO1 |
| OR | |
| b) Illustrate with an example for include, extend and generalization. | 13,K2,CO1 |
| 12. a) Briefly explain the Elaboration level for college system. | 13,K2,CO2 |
| OR | |
| b) Draw and explain in detail about Class diagram for library management system. | 13,K2,CO2 |
| 13. a) Describe about System sequence diagram with suitable example. | 13,K2,CO3 |
| OR | |
| b) Draw and explain in detail about Package diagram for Students feedback system. | 13,K2,CO3 |

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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14. a) Describe about GRASP for design objects in Students Information System. *13,K2,CO4*

OR

b) Describe the following terms. a) GoF design pattern b) Mapping design to Code. *13,K2,CO4*

15. a) Write about Unit testing. Write the Test Plan, Perform the unit test and prepare the test cases. *13,K2,CO1*

OR

b) Describe the impact of object orientation on testing. *13,K2,CO1*

PART - C (1 × 15 = 15 Marks)

16. a) Draw the UML diagram for State Transport Corporation of Tamilnadu. Identify the actors and explain relationships. *15,K3,CO3*

OR

b) Draw the Component and Deployment diagram for Indian Railway System and explain in detail. *15,K3,CO3*