Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 84571

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Sixth Semester

Computer Science and Engineering

080230028 — OBJECT ORIENTED SYSTEM DESIGN

(Regulations 2008)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is abstraction?

2.   List the characteristics of object identifier.

3.   What is an abstract class?

4.   State the benefits of modeling interaction diagrams.

5.   What is meant by system conception?

6.   What is the need of analysis?

7.   What is refactoring? Give its advantage.

8.   What is concurrency policy?

9.   State the need for fine tuning.

10. How is robustness measured in OO Programming?

PART B — (5 × 16 = 80 marks)

11. (a)   Explain in detail about the themes, evidences and usefulness of object oriented development and modeling.   (16)

Or

(b)   (i)   With a neat sketch of a sample class model and explain it.   (8)

       (ii) Describe the concept of Generalization and Association.   (8)

12. (a) Write about the state modeling with example state diagram for ticket reservation system. (16)

Or

(b) Draw the use case diagram, interaction diagram and activity diagram for library management system. (16)

13. (a) What is elaboration? Illustrate how a system concept is elaborated in preparing a problem statement. (16)

Or

(b) What is a domain model? With an example illustrate domain class model, state model and interaction model in detail. (16)

14. (a) Discuss the process involved in

(i) Breaking a system into subsystems (6)

(ii) Identifying concurrency and (6)

(iii) Allocating the subsystems. (4)

Or

(b) Explain the steps involved in Class design. Illustrate each process with suitable example. (16)

15. (a) Discuss the practical tips for implementing the functionality of realization and generalization associations using ATM example. (16)

Or

(b) Explain the features of object oriented databases and its implementation issues using ATM example. (16)

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