

Question Paper

Exam Date & Time: 04-Dec-2023 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

INTERNATIONAL CENTRE FOR APPLIED SCIENCES END SEMESTER THEORY EXAMINATIONS NOVEMBER/DECEMBER 2023 III SEMESTER B.Sc.(APPLIED SCIENCES) IN ENGG.

Software Design Using Object Oriented Paradigm [ICS 232 - S2]

Marks: 50

Duration: 180 mins.

Answer all the questions.

Missing data, if any, may be suitably assumed.

- 1) Give at least 5 Functional Requirements , with all the parts for Supermarket Automation. (5)
 - A)
 - B)
- 2) Giving the symbols of Use Case Diagram, explain the procedure of drawing Use Case Diagram. (5)
 - A)
 - B)
- 2) Give Use Case description for 8 Use Cases for Railway Reservation System. (5)
 - A)
 - B)
- 3) Give Activity Diagram for at least 5 use cases of Q 2 A). (5)
 - A)
 - B)
- 3) Give all Interaction Diagrams (Sequence and Collaboration) for all 8 use cases of Q 2 A) (5)
 - A)
 - B)
- 3) What are States in Object Design. Giving all states for Q 2 A) and give the State Chart Diagram, for all use cases for the same. (5)
 - A)
 - B)
- 4) How do you use Super Keyword in JAVA? Give a program. (5)
 - A)
 - B)
- 4) What do you mean by IO Exception in JAVA? Write a program for the same. (5)
 - A)
 - B)
- 5) What are different parts of SRS document? Explain with an example. (5)
 - A)
 - B)
- 5) Give all diagrams of SDOOP, for Airline Reservation System for 10 requirements, and generate the code in either C or C++ or JAVA. (5)
 - A)
 - B)

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