

Course Code: CSE221, Course Title: Object Oriented Programming
Level:2 Term:2 Batch: ALL

Marks: 25

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

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	1. Create the three classes with constructors and the members from UML model. 2. Declare and update the static attribute in Order. 3. In a <code>main()</code> method, instantiate one Customer who places two Orders, each containing at least one MenuItem. 4. Print a summary showing customer name, order IDs, item names and total orders so far. d) Reasoning on Design Choices Why is the <i>totalOrders</i> counter best declared static? Write 3 points which may further enhance your model.	3	CO2
2.	Problem Solving Scenario: A Car-Pooling Service matches Drivers (driverID, rating) with Rides (rideID, distance, fare) requested by Riders (riderID, name). A Rider can join many Rides; a Ride can include many Riders; a Driver drives many Rides but each Ride has one Driver. Tasks 1. Identify the classes and principal attributes (no methods needed). 2. Sketch a high-level UML class diagram with correct multiplicities (show <i>Driver–Ride</i> and <i>Rider–Ride</i> separately).	5	CO3

Good Luck