**Unit-1 Object and Object Relational Databases**

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| **Sr. No.** | **Question** | **Mark** |
| 1 | What is object? What are the properties of object? Explain with example object structures? | 8 |
| 2 | Write a short note on   1. Type & Table inheritance in ORDBMS. 2. Persistence. | 12 |
| 3 | Give an overview of an object-oriented concepts. | 8 |
| 4 | Explain with example type inheritance & table inheritance? | 8 |
| 5 | Write a short note on   1. Nested relations 2. Complex objects | 12 |
| 6 | What do you mean by transient object and persistent object? Explain the concept of Naming & Reachability for making the object persistent. | 8 |
| 7 | Write a short note on a) ORDBMs vs OODBMs |  |
| 8 | What is an object in an object-oriented concept? Explain briefly identity of an object & the immutability property of an object? | 8 |
| 9 | What is a type hierarchy? Explain the concept of subtype & supertype with an appropriate example. | 8 |
| 10 | What do you mean by complex object? Explain with suitable example structured & unstructured complex object. |  |
| 11 | Define an object. Describe object structure & type constructor with an example. | 8 |
| 12 | Compare RDBMS, ORDBMS & OODBMS. | 8 |
| 13 | Write a short note on   1. Overview of an OO concept. | 6 |
| 14 | With help of example, explain database design for RDBMS & ORDBMS. | 8 |
| 15 | Explain structured data type & operations on structured data. | 8 |
| 16 | Write a short note on   1. OID & nations of equality | 6 |
| 17 | What is an object Identity? Explain the system-generated OID & the immutability property of an object. | 8 |
| 18 | What is persistent object? Explain the approaches to make object persistent? | 8 |
| 19 | A car-rental company maintains a vehicle database for all vehicles in its current fleet. For all vehicles, it includes the vehicle identification number, license number, manufacture, model, data of purchase, & color. Special data are included for certain types of vehicles:   * Trucks: cargo capacity * Sports car: horsepower, renter age requirement * Vanes: number of passengers * Off-road vehicles: ground clearance, drivetrain   (Four-or two-wheel drive)  Construct an SQL: 1999 schema definition for this database. Use inheritance where appropriate. | 8 |