

## **SYSTEM ANALYSIS AND DESIGN**

### **CLASS ACTIVITY – (20 Marks)**

**SUBMISSION DATE : 28-Feb-2025**

Prepare following diagram using Ms. Visio after proper analysis of the current business system. You need to visit the business site and apply fact finding techniques.

1. Visit any business of your choice of your own (or your relatives).
  2. Prepare Use case diagram. ( 2 marks )
  3. Draw Organization chart of your proposed system to determine subsystem, components, and modules in your system. ( 2 marks )
  4. Prepare following three lists. ( 1 marks )
    - a. Process
    - b. Tables
    - c. External Entities
  5. Draw context Diagram. ( 1 mark )
  6. Draw 0-level DFD. (Draw 1<sup>st</sup> and 2<sup>nd</sup> level if required for any process). ( 4 marks )
  7. Draw Database Model Diagram (of 4b). ( 3 marks )
  8. Draw Activity Diagram as many as required. ( 3 marks )
  9. Write algorithm / Draw flow chart for any two module (3) or any two process (4a). ( 4 marks )
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| Sample Topics for Class Activity for System Analysis and Design |   |
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| 1   | “Hospital Management System.”   |
| 2   | “Virani Science College Academic System”  |
| 3   | “Vishal Travel Agency”  |
| 4   | “Student having own Home Business they can select their appropriate topic and requirement.” |
| 5   | “Online Education System – LMS of any institute”  |