

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER -III EXAMINATION –WINTER-2021

Subject Code: 2638603**Date: 28/12/2021**

**Subject Name: Structured and Object Oriented Analysis and Design
Methodology**

Time: 10:30 AM TO 01:00 PM**Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Explain the following Systems **07**
1. MIS
2. DSS
- (b)** What is Analysis? Discuss the Different Feasibility Study. **07**
- Q.2 (a)** What is Interview? Discuss Open-ended and closed-ended Interview Question also Discuss advantages of Open-Ended Question. **07**
- (b)** Explain the Types of Error on DFD with Example. **07**
- OR**
- (b)** Draw the Context level,0-level Data Flow Diagram for Online Trading System. **07**
- Q.3 (a)** Discuss Different Output Design objectives. **07**
- (b)** Discuss Seven Section of a Form in Input Design. **07**
- OR**
- Q.3 (a)** Give the Details of Normalization. **07**
- (b)** Discuss the Various Types of Interfaces in HCI Design. **07**
- Q.4 (a)** Define UML Explain the building Blocks of UML. **07**
- (b)** What is class and object? Explain the Class Diagram With proper example. **07**
- OR**
- Q.4 (a)** Explain the Types of Relationship in UML with example. **07**
- (b)** What is Component? Explain the Component Diagram with example **07**
- Q.5 (a)** What is Use Case? Draw the Use Case Diagram Online Food Ordering System. **07**
- (b)** Explain the forking and Joining in Activity diagram with Example **07**
- OR**
- Q.5 (a)** Define Interaction explain the Types of Interaction Diagram with example **07**
- (b)** Draw the state Diagram for online shopping System. **07**
