

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER– III EXAMINATION – WINTER 2018

Subject Code: 2630001

Date: 02-01-2019

Subject Name: Structured & Object Oriented Analysis & Design

Methodology (SOOADM)

Time: 10.30 am to 1.00 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)** Do as directed. **07**
1. List out the basic symbols used in Data Flow Diagrams with their meanings and example.
 2. The class diagram, component diagram, object diagram and deployment diagram are considered as types of _____
 3. List different types of relationships in UML with symbol.
 4. Which two constraints make aggregation relationship into composition?
 5. Define: widgets.
 6. Define: Generalization.
 7. Number of instances of class may have _____.
- (b)**
1. Give one advantage and disadvantage of CASE tool. **03**
 2. What is JAD? Give purpose and its one advantage. **04**
- Q.2 (a)** Explain SDLC (System Development Life cycle) with all phases in detail. **07**
- (b)** Discuss guidelines for designing website. **07**
- OR**
- (b)** Explain the five steps in interview preparation. **07**
- Q.3 (a)** Which are outputs Technologies? Also discuss two methods for output technology. **07**
- (b)** Discuss Generalization, Association and Composition in UML with example. **07**
- OR**
- Q.3 (a)** Write a short not on Graphical User Interface, also explain Ajax in brief. **07**
- (b)** Write Short Note on DATA DICTIONRY. **07**
- Q.4 (a)** Explain development of decision table. **07**
- (b)** Draw a State Diagram for telephone line system. **07**
- OR**
- Q.4 (a)** Explain Object Oriented Themes. **07**
- (b)** Explain the concept of Sequence diagram giving example. **07**
- Q.5 (a)** What is Class? How will you Draw class diagram? Give suitable example. **07**
- (b)** How can you ensure data quality through input validation. **07**
- OR**
- Q.5 (a)** What is Use Case in UML? List down actors and use cases for the following systems. **07**
- i. Library Management System.
 - ii. Online Train Reservation System.
- (b)** Write short note on structural diagrams in UML. **07**
