GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER III- EXAMINATION –WINTER-2023

Subject Code:2638603   **Date: 12/12/2023**
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.
    4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1	**(a)**	Discuss Office Automation System (OAS) and Knowledge Work System (KWS) Also give one difference between them.	**07**
	(b)	Discuss following:	**07**

    1. System Analyst as a Supporting Expert [2].
    2. Four Phases of SDLC Approach [2].
    3. Explain Upper case tool [1.5].
    4. Explain in short Economic Feasibility [1.5].

Q.2	**(a)**	Discuss Advantaged of Open-Ended Questions also Discuss way of Arranging Questions.	**07**
	(b)	Explain following in brief:	**07**

    1. Scrum [2].
    2. Logical and Physical Data Flow Diagram [2].
    3. Algebraic notation for Data Structures [1.5].
    4. Standard format of a decision table [1.5].

OR

	(b)	Prepare Context Diagram and Diagram 0 for hospital management System.	**07**
Q.3	**(a)**	Discuss Output Technologies and Caption Types of input Design.	**07**
	(b)	Explain difference between Data Warehouses and database also Discuss Question-and-Answer interface.	**07**

OR

Q.3	**(a)**	Explain elements of Animation and Intranet and Internet page design.	**07**
	(b)	Give the details of Data Mining and Types of Feedback.	**07**
Q.4	**(a)**	What is UML? List out and explain Things in the UML.	**07**
	(b)	What is Components? How Components used with class Explain with Example.	**07**

OR

Q.4	**(a)**	What is UML? List out and explain Types of Relationships in the UML.	**07**

(b) Discuss following Diagram with Example: **07**

      1. Object.
      2. Advanced Class.

Q.5 **(a)** Discuss Use Case Diagram. Draw the Use Case Diagram for Online Policy **07**
Bazaar System.

(b) What is Interactions? Discuss differences between sequence diagram and **07**
collaboration diagram with UML diagram example.

OR

Q.5 **(a)** Explain Activity Diagram Draw the Activity Diagram for Online Registration **07**
for College Cricket Tournament.

(b) Discuss State Diagram draw the State Diagram for Food Delivery App like **07**
Zomato.

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