

# GUJARAT TECHNOLOGICAL UNIVERSITY

## MCA – SEMESTER V - EXAMINATION – WINTER-2021

**Subject Code: 4659303****Date: 25/11/2021****Subject Name: Software Engineering****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)** Do as directed
- (1) What is process? 02
- (2) What is alpha testing? 02
- (3) Discuss agile methodology. 03
- (b)** Explain basic path testing in details. 07
- Q.2 (a)** Explain Evolutionary process model (Any One). 07
- (b)** Discuss Groundwork for understanding of software. 07
- OR**
- (b)** Write a note on (a) Negotiation and (b) Validating requirement. 07
- Q.3 (a)** Explain Call and return architecture in details. 07
- (b)** Explain Flow oriented model with diagram. 07
- OR**
- Q.3 (a)** Explain Modularity in details. 07
- (b)** Write Golden rules for designing. 07
- Q.4 (a)** Discuss Software test strategy in detail. 07
- (b)** Prepare Activity and Sequence diagram for Online Bus Ticket Booking System. 07
- OR**
- Q.4 (a)** What is testing? Explain control structure testing in detail. 07
- (b)** Prepare Activity and Sequence diagram for Online Mobile Recharge System. 07
- Q.5 (a)** Consider for a book store in a shopping mall. The customer selects the books from racks to purchase. Prepare DFD and a class diagram for bookstore checkout system. The customer brings selected books to cashier. The cashier scans each item with checkout system to prepare an order 07
- (b)** Case Study: create agile document for Earned-value and burn charts of online Job Portal. 07
- OR**
- Q.5 (a)** Consider an Online shopping web site, where customer selects the items and add into cart. At the customer will proceed for payments. Prepare a Use case and DFD diagram for online shopping checkout system. The customer brings selected books to cashier. The cashier scans each item with checkout system to prepare an order. 07
- (b)** Case Study: create agile document for Earned-value and burn charts of online video library application. 07

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