

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER V- EXAMINATION –SUMMER-2024

Subject Code: 4659303

Date: 15/05/2024

Subject Name: Software Engineering

Time: 02:30 PM TO 05:00 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 on layered technology of Software engineering. **07**
(b) Explain the five major activities in a Generic Process Framework. **07**
- Q.2** (a) Write a note on Waterfall Model along with diagram. **07**
(b) Different types of process flows with diagrams **07**
- OR**
- (b) Explain the three main assumptions of Agile Software Development. **07**
- Q.3** (a) List different types of process patterns and explain them. **07**
(b) What is meant by spike solution and Refactoring in XP design? **07**
- OR**
- Q.3** (a) Explain Adaptive Software Development along with diagram **07**
(b) List and explain five different types of design classes. **07**
- Q.4** (a) Discuss on Incremental Process Model with diagram. **07**
(b) Differentiate between active state and passive state with example. **07**
- OR**
- Q.4** (a) Explain main elements of a typical SRS. **07**
(b) Write a short note on Flow oriented modeling. **07**
- Q.5** (a) Explain Black box testing with an example. **07**
(b) Draw a Use case diagram for the Railway Reservation system. **07**
- OR**
- Q.5** (a) List and briefly explain the seven major steps involved in Requirements Engineering. **07**
(b) Discuss on architectural styles. **07**
