

Enrolment No. /Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.SC(CS)- INTEGRATED – SEMESTER V- EXAMINATION –WINTER-2024

Subject Code:1350301

Date: 19/11/2024

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.
 4. Use of simple calculators and non-programmable scientific calculators are permitted
- Q.1** (a) What is Software Process? Explain Software Engineering. **03**
(b) Explain Spiral model in detail. **04**
(c) Explain Incremental model with proper diagram. **07**
- Q.2** (a) What is Software Metrics? Explain it. **03**
(b) Explain Software Project Planning in detail. **04**
(c) Write a detail note on Project Scheduling & Tracking. **07**
- OR**
- (c) Discuss Risk Analysis & Management in detail. **07**
- Q.3** (a) What do you mean by Eliciting Requirements? **03**
(b) What do you mean by Requirement Engineering? **04**
(c) List and explain the Requirement Engineering tasks. **07**
- OR**
- Q.3** (a) List out elements of Requirement Analysis model. **03**
(b) Define Requirement Engineering. **04**
(c) Write a short note on Software Requirement Specification (SRS). **07**
- Q.4** (a) Write a short note on User Interface Design. **03**
(b) List and explain the Design Concepts in detail **04**
(c) Discuss in detail Architectural Design. **07**
- OR**
- Q.4** (a) Write a short note on Web Application Design. **03**
(b) Explain Design Principal in detail. **04**
(c) Discuss in detail Component Level Design. **07**
- Q.5** (a) Explain Software Quality Assurance (SQA) in detail. **03**
(b) Write a detail note on Formal Technical Reviews. **04**
(c) Explain in detail Component-Based Software Engineering process. **07**
- OR**
- Q.5** (a) Discuss Software Reliability in detail. **03**
(b) Write a detail note on SQA Plan. **04**
(c) Explain in detail Client/Server Software Engineering process. **07**
