

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BVOC- SEMESTER- II EXAMINATION – SUMMER 2023

Subject Code:21120202

Date:19-07-2023

Subject Name: Software Engineering

Time:10:30 AM TO 12:30 PM

Total Marks:50

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

	Marks
Q.1 (a) Define Software. Explain the characteristics of software.	05
(b) Explain the Prototype Model in detail.	05
Q.2 (a) What is software project planning? Enlist major activities that are performed during project planning.	05
(b) Develop a Use case diagram for the Hotel management system.	05
OR	
(b) Draw an activity diagram for the Library management system.	05
Q.3 (a) Explain different design concepts.	05
(b) What is coupling? Explain different types of coupling.	05
OR	
Q.3 (a) Compare and contrast coupling and cohesion.	05
(b) What is Cohesion? Explain different types of cohesion.	05
Q.4 (a) Explain testing strategies (different levels of testing) in detail.	05
(b) Define Software Quality. Explain Software Quality Assurance techniques.	05
OR	
Q.4 (a) Give the difference between Black Box Testing and White Box Testing.	05
(b) Write a short note on Unit Testing.	05
Q.5 (a) Write a short note on Software Re-engineering.	05
(b) Explain CASE and building blocks of CASE.	05
OR	
Q.5 (a) Write a short note on Reverse Engineering.	05
(b) Explain CASE tools and their importance in software engineering.	05
