

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BVOC- SEMESTER-II EXAMINATION – WINTER 2022

Subject Code:21120202

Date:23-02-2023

Subject Name:Software Engineering

Time:02:30 PM TO 04:30 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) What is software engineering? List layers of software engineering.	05
(b) Explain software reliability in brief.	05
Q.2 (a) Differentiate between cohesion and coupling.	05
(b) What do you mean by prototyping? What is the need of prototyping?	05
OR	
(b) Explain the process model which is normally suits for development of website for employee's information.	05
Q.3 (a) Develop a Use Case Diagram for Hotel Management System.	05
(b) Explain Software Project Metrics in brief.	05
OR	
Q.3 (a) Develop an activity diagram for buying a book using online book store.	05
(b) What do you mean by requirement analysis? Explain the various steps of it.	05
Q.4 (a) Discuss flow oriented design methodology.	05
(b) Explain basic path testing technique with suitable example.	05
OR	
Q.4 (a) Explain different software design concepts.	05
(b) Differentiate between Unit and Integration testing method.	05
Q.5 (a) State Software Quality Assurance techniques. Explain any one in detail.	05
(b) Explain software reuse process in brief.	05
OR	
Q.5 (a) What do you mean by SQA? What is the roles of SQA in software engineering?	05
(b) Explain building blocks of CASE in detail.	05
