

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- VI EXAMINATION – SUMMER 2020****Subject Code: 2160701****Date: 26/10/2020****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.

	MARKS
Q.1 (a) Explain the following Terms: i) Process ii) Product iii) Software Engineering	03
(b) Define feasibility study. Enlist and explain the contents to be included in the feasibility study report.	04
(c) Explain the different phases of Waterfall model.	07
Q.2 (a) Explain RAD model in detail.	03
(b) Explain steps involved during the prototyping.	04
(c) Define cohesion. Explain different types of cohesion.	07
OR	
(c) Explain Risk Management. Explain RMMM plan.	07
Q.3 (a) Define the terms. i) Data Dictionary ii) Software Quality Assurance iii) Cardinality, Modality	03
(b) Define Generalization. Explain with example.	04
(c) What is the importance of User Interface? Explain User Interface Design rules.	07
OR	
Q.3 (a) Define the terms. i) Process framework ii) SRS iii) System Flow Diagram	03
(b) Describe CASE building block.	04
(c) Explain all phases involved in the implementation phase.	07
Q.4 (a) List the principles of Software Design.	03
(b) Explain 4 P's of effective Project Management in detail.	04
(c) Explain Software Configuration Management (SCM) process in detail.	07
OR	
Q.4 (a) Distinguish between verification and validation.	03
(b) Explain project scheduling and tracking.	04
(c) List and explain different types of testing done during testing phase.	07
Q.5 (a) Define the terms. i) Coupling ii) Refactoring iii) Cyclomatic Complexity	03
(b) Explain COCOMO model for project estimation.	04
(c) Write short note on reverse engineering.	07

OR

- Q.5**
- (a) Explain Software as a Service (SaaS). **03**
 - (b) Define mobile testing? Enlist and explain the challenges in mobile testing. **04**
 - (c) List set of guidelines for BVA. Also Explain merits and demerits of BVA. **07**

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