

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2017

Subject Code: 2160701

Date: 03/11/2017

Subject Name: Software Engineering

Time: 02:30 PM TO 05:00PM

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) Compare prototype and RAD model.	03
	(b) Explain Agile Development in detail.	04
	(c) Enlist characteristic of SRS. Write a SRS for Hospital management system.	07
Q.2	(a) Explain Software engineering as a Layered technology.	03
	(b) Explain the merits and demerits of SCRUM.	04
	(c) Explain Software metrics used for software cost estimation.	07
	OR	
	(c) Write a short note on Requirement Engineering.	07
Q.3	(a) Describe golden rules of User Interface Design.	03
	(b) What is activity diagram and Swim-lane? Draw activity diagram for billing Counter of a shopping mall.	04
	(c) Write short notes on COCOMO model.	07
	OR	
Q.3	(a) State the difference between procedural Design and Object Oriented Design.	03
	(b) Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules	04
	(c) What is architectural design? Enlist different style and patterns of architecture.	07
Q.4	(a) Compare quality control with quality assurance.	03
	(b) Explain the process model which is normally suits for development of large-scale software system.	04
	(c) List set of guidelines for BVA. Also Explain merits and demerits of BVA.	07
	OR	
Q.4	(a) Write short notes on Reengineering.	03
	(b) List quality standards. Explain any one.	04
	(c) Explain White Box Testing With an Example.	07
Q.5	(a) Explain CASE tools and its use in Software Engineering.	03
	(b) Write short notes on Reverse Engineering	04
	(c) What is Risk Management? Explain RMMM plan.	07
	OR	
Q.5	(a) What is Cyclomatic complexity? Define Steps to find Cyclomatic complexity using flow graph.	03
	(b) Explain Software Project management and W5HH principle	04
	(c) Explain Software as a Service (SaaS). Give its applications	07
