

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (OLD) EXAMINATION – WINTER 2018

Subject Code:160701

Date: 07/12/2018

Subject Name: Software Engineering

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Explain the process model which is suitable only for well-understood problems. **07**
- (b)** List set of guidelines for formal technical reviews **07**
- Q.2 (a)** Explain the W⁵HH principle **07**
- (b)** Explain Spiral model with suitable example. **07**
- OR**
- (b)** Describe integrated CASE Environment. **07**
- Q.3 (a)** What is SRS? Why SRS is known as black-box specification of the system? What are major issues addressed by SRS? **07**
- (b)** What do you mean by risk? What is software risk? Explain all type of Software risk. **07**
- OR**
- Q.3 (a)** Explain Functional Requirement and Non Functional Requirement with example of Hospital Management System **07**
- (b)** What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimation. **07**
- Q.4 (a)** Define module coupling. Explain different types of coupling. **07**
- (b)** Prepare a state diagram for Microwave Oven showing all states of it. **07**
- OR**
- Q.4 (a)** Define module cohesion. Explain different types of cohesion. **07**
- (b)** What is activity diagram and swim-lane diagram? Draw activity diagram for Billing Counter of a shopping mall. **07**
- Q.5 (a)** Develop a complete use cases for the system which is known to you. **07**
- (b)** What are different levels of testing and the goals of the different levels? **07**
- OR**
- Q.5 (a)** What is the importance of User Interface? Explain User Interface Design Rules with examples. **07**
- (b)** Explain software testing strategy for conventional software architecture. Draw the spiral diagram showing testing strategies with phases of software development. **07**
