

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Subject Code: 160701**Date: 27/10/2016****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.

- Q.1** (a) Explain in brief a software process model which is known as Meta Model. **07**
(b) Explain different levels of testing and the goals of the different levels. **07**
- Q.2** (a) Explain W⁵HH principal which lead to the definition of key project characteristics & resultant project plan. **07**
(b) Define software engineering. Draw and explain software engineering layers with diagrams. **07**
- OR**
- (b) Explain a software development process model which emphasizes a short development cycle. **07**
- Q.3** (a) Explain every stages of Requirement Engineering. **07**
(b) Explain three golden rules for UI design using example. **07**
- OR**
- Q.3** (a) Describe coding standards. **07**
(b) Define functional and non-functional requirements and prepare SRS document for Library Management Software (LMS). **07**
- Q.4** (a) List out FOUR Ps for project management and explain them in depth. **07**
(b) What are CASE tools? Explain its importance in SE. **07**
- OR**
- Q.4** (a) Explain different types of relationship between use cases and Draw use case diagram for ATM Machine. **07**
(b) Define Software Reliability. Explain various measures of Software Reliability and Availability. **07**
- Q.5** (a) Explain White Box and Black Box testing with all their testing techniques. **07**
(b) Explain McCall's Software Quality factors. **07**
- OR**
- Q.5** (a) Explain Risk Mitigation, Monitoring and Management Plan (RMMM). **07**
(b) Define Cohesion and Coupling. Explain Different types of Cohesion (in order of the cohesion) and its effect on software modules. **07**
