

Seat No.: _____

Enrolment

No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – VI EXAMINATION – WINTER 2015

Subject Code:160701

Date:15/12/ 2015

Subject Name: Software Engineering

Time:2:30pm to 5:00pm

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 spiral model and describe its advantages over waterfall model. **07**
(b) Draw Use case for Library Management System. **07**

Q.2 (a) Define: Feasibility Study , CMM Level , QFD. **07**
(b) Explain Different Symbols of E-R Diagrams. Draw E-R diagram for University Examination System. **07**

OR

(b) Explain cardinality and modality with Examples. **07**

Q.3 (a) Explain requirement engineering process. **07**
(b) Compare Prototype and RAD Process Model. **07**

OR

Q.3 (a) Compare Incremental and RAD Process Model. **07**
(b) Explain Functional and Non Functional Requirement for ATM in Banking System. **07**

Q.4 (a) Compare Procedural Design with Object Oriented Design. **07**
(b) Explain the role of data dictionary in analysis and design **07**

OR

Q.4 (a) Explain Design Rules for User Interface(UI). **07**
(b) Explain Software Project Management and W⁵HH Principle. **07**

Q.5 (a) Explain Black box testing and White Box Testing. **07**
(b) Compare: Quality Control Vs. Quality Assurance. **07**

OR

Q.5 (a) Explain Unit Testing and System Testing. **07**
(b) Explain Risk Management , Monitoring and Mitigation. **07**
