

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 160701****Date: 26-11-2014****Subject Name: Software Engineering****Time: 02:30 pm - 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) Describe FOUR Ps for Project Management and explain any THREE in detail. **07**
(b) What does CASE stands for? Explain all the CASE components. **07**
- Q.2** (a) Define Software Engineering. Draw and explain Software Engineering layers. **07**
(b) Write and explain briefly possible reasons for project failure. **07**
- OR**
- (b) Describe two main features of Spiral model and discuss working of Prototyping model with its diagram. **07**
- Q.3** (a) Discuss umbrella activities and its role in software development life cycle (SDLC). **07**
(b) Explain W5HH principle with respect to software project management. **07**
- OR**
- Q.3** (a) Draw context diagram and data flow diagram (DFD) for Airlines Reservation System. **07**
(b) What is Software Reliability? Compare Black Box testing and White Box testing in software product. **07**
- Q.4** (a) Prepare an E-R diagram for a Hospital Management System. **07**
(b) Describe process of requirement engineering in detail. **07**
- OR**
- Q.4** (a) Discuss all generic frame work activities of software engineering with respect to any one process model. **07**
(b) What is testing? What is debugging? Draw the spiral diagram showing testing strategies with phases of software development. **07**
- Q.5** (a) Draw database design model and discuss Architectural design and Interface design. **07**
(b) What is User Interface (UI)? Explain the design model for UI. **07**
- OR**
- Q.5** (a) Discuss Incremental process model with its diagram and compare with Waterfall model. **07**
(b) Define Software Quality Assurance (SQA) and explain SQA activities. **07**
