

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:160701

Date:10/05/2018

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) Describe four Ps for Project Management and explain any three in detail. **07**
(b) Discuss umbrella activities and its role in software development life cycle. **07**
- Q.2** (a) Explain DFD with symbols used and draw context diagram and DFD for Air line reservation system. **07**
(b) Define Testing. What is the need of it? Explain various levels of software testing. **07**
- OR**
- (b) (i) Compare the relative advantages of function oriented and object oriented approaches to software design. **04**
(ii) List the characteristics of a good quality SRS. **03**
- Q.3** (a) Explain E-R with symbols used and draw E-R diagram for Hospital Management System. **07**
(b) Explain five levels of SEI-CMM. **07**
- OR**
- Q.3** (a) Write and explain possible reasons for project failure. **07**
(b) Explain the role of data dictionary in analysis and design. **07**
- Q.4** (a) What is activity diagram and swim-lane diagram? Draw activity diagram for Billing Counter of a shopping mall. **07**
(b) Write a Short note on Risk Management. **07**
- OR**
- Q.4** (a) Explain in detail the design issues while designing User Interface. **07**
(b) What is Cyclomatic Complexity? Define steps to find cyclomatic complexity using flow graph. **07**
- Q.5** (a) Write a short note on ReEngineering. **07**
(b) Write Short note on COCOMO model. **07**
- OR**
- Q.5** (a) Write a short note on Reverse Engineering. **07**
(b) (i) Explain the difference between coupling and cohesion. **04**
(ii) List SQA related activities. **03**
