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Q.5

Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (OLD) - EXAMINATION - SUMMER 2017 Subject Code: 160701 Date: 10/05/2017 **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. 0.1 07 Answer the following questions. (a) What is a Prototype? **(i) (1)** (ii) Which is the most important phase of SDLC? **(1)** (iii) Highest level DFD is referred as _____ **(1)** The database design activity deals with the design of _____ & ____. (2)CASE tools are used for _____ **(1)** What is the goal of the requirements analysis and specifications phase of **(1)** software development life cycle? Write and explain briefly possible reasons for project failure. **(b)** 07 **Q.2** Explain spiral model and describe its advantages over waterfall model. 07 (a) **(b)** Describe requirements validation. 07 OR 07 Explain requirement engineering process. **(b)** Discuss all generic frame work activities of software engineering with respect **Q.3** (a) **07** to any one process model. Draw E-R diagram for university result system. 07 **(b)** Explain user interface design concepts with suitable example. **Q.3** 07 (a) **(b)** Define module coupling and cohesion. Explain different types of coupling and 07 cohesion. Explain Software Project Management and W⁵HH Principle. 0.4 (a) 07 Explain CASE and building blocks of CASE. **(b)** 07 What is Software Quality Assurance? Explain various factors that affect **Q.4 07** (a) Software Quality. What are the steps in Software Project Planning? What is effort estimation? 07 **(b)** What is Cyclomatic Complexity? Define steps to find cyclomatic complexity **Q.5** 07 (a) using flow graph.

What is activity diagram and swim-lane diagram? Draw activity diagram for

Explain Risk Management, Monitoring and Mitigation.

possible relationships between classes of a system.

OR

What is Object Oriented Design of a system? Create a class diagram showing all

Billing Counter of a shopping mall.

07

07

07