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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER • 2015

Subject code: 160701 Date: 01/05/2015 Subject Name: Software Engineering Time: 10.30AM-01.00PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** 07 (a) Explain spiral model and Concurrent Development Model. (b) Define: Feasibility Study, CMM Level 07 **Q.2** (a) Explain Requirement Analysis with example. 07 (b) Explain Different Symbols of E-R Diagrams. Draw E-R diagram for 07 Library Management System. OR **(b)** What is Relationship? Explain Cardinality and Modality with Examples. 07 **Q.3** (a) Compare Prototype and RAD Process Model. **07** (b) Draw Use case diagram for Hospital Management System. 07 OR Q.3 (a) Compare Incremental and Waterfall Process Model. **07** (b) Explain Functional and Non Functional Requirement for Hotel 07 Management System. **Q.4** (a) Compare Procedural Design with Object Oriented Design. **07** (b) Explain: QFD, Reliability 07 OR **Q.4** (a) Explain Design Rules for User Interface(UI) with example of internal **07** UI and external UI. **(b)** Explain Software Project Management and W⁵HH Principle. 07 **Q.5** (a) Explain Black box testing and White Box Testing. 07 (b) Explain: Quality Control and standards like ISO 9000 and 9001. 07 (a) Explain CASE tools and its use in Software Engineering. 07 **Q.5** (b) Explain Risk Management, Monitoring and Mitigation. 07
