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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER-IV EXAMINATION –SUMMER-2020 Subject Code:4649308 Date:07-11-2020 **Subject Name:Software Quality Assurance (SQA)** Time:02:30 PM TO 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. 0.1 Attempt all of the following (Any Seven) **07** (a) What is Software Quality? I. II. Explain peer review. What is Software testing? III. IV. What is Checklist? V. Full form of FDR. VI. What is SDLC. VII. What is quality record? VIII. What is work instruction? IX. What is procedure? Illustrate McCall's factor model with an example 07 **(b) Q.2** List and briefly describe the various causes of software errors. 07 (a) Explain in detail about SQA Architecture. **(b)** 07 OR Classify SQA system components and explain at least two major components in 07 **(b)** detail. Define software reliability. Explain reliability techniques in detail 0.3 07 (a) **(b)** Discuss Supporting quality devices. 07 OR Explain software quality metrics methodology in detail 07 **Q.3** (a) Explain the contribution of CASE tools in SQA. 07 **(b)** 07 0.4 Discuss Metrics used in software maintenance. (a) How to measure software quality metrics? Give Examples on metrics 07 **(b)** program. OR Explain the implementation of alpha and beta site test and discuss their **Q.4** 07 (a) advantages and disadvantages. Describe Prevention Costs. **07 (b)** Explain CAPA in detail. **07 Q.5** (a) **(b)** Describe Procedure and work instruction. 07 OR Explain Preventive and corrective actions. **Q.5** 07 (a) **(b)** Explain SQA Trustees and their tasks. **07**
