

Printed Pages: 02

Paper Id:

113201

Sub Code: EIT061

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B TECH
(SEM-VI) THEORY EXAMINATION, 2018-19
SOFTWARE QUALITY ENGINEERING

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION - A****1. Attempt all questions in brief.****2 x 10 = 20**

- a) Explain the term Software Quality?
- b) Define Quality Assurance.
- c) Explain the roles of process in software quality.
- d) Define Review.
- e) Write a short note on origins of defects.
- f) What do you understand by software measurement?
- g) What is hierarchical model of quality?
- h) Explain function points.
- i) Differentiate between Fix-quality and Software quality.
- j) What are the requirements of customer problem metrics?

SECTION – B**2. Attempt any three of the following:****10 x 3 = 30**

- a-**Explain** various software maintenance metrics with example.
- b- Why quality estimation is required? How one can use this tool to estimate the cost of the project?
- c- Explain McCall's Quality model for quality assessment with example.
- d-**What** do you mean by quality planning and control? Explain with suitable example.
- e- Define Verification and Validation activities associated with V-Model.

SECTION-C**3- Attempt any one parts of the following:****10x1=10**

- a-Explain various characteristics if modern testing tool in respect of software quality.
- b-Describe the defect arrival pattern during machine testing and phase based removal pattern.

4- Attempts any one part of the following:**10x1=10**

- a- Explain with proper graph delayed Sand inflection S models?
- b- What is business process reengineering? Explain the different dimensions of quality.

5-Attempt anyone part of the following:**10x1=10**

- a-Explain Pre-QA activities, In-QA activities and Post-QA activities in detail.
- b-What is the relationship between quality, quality assurance and quality engineering?

6-Attempt any one part of the following:**10x1=10**

- a-Discuss the Rayleigh model of software quality management?
- b-Explain principles behind total quality management and different types of quality standards and practices.

7-Attempt any one part of the following:**10x1=10**

- a-Is it possible to assess the quality of software if the customer keeps changing? What it is supposed to do?
- b-Describe the following term with respect in SQE:-
 - i) Mean time to failure (MTTF)
 - ii) Defect Density.