Printed Pages : 3

EIT061

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 113601

Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15
SOFTWARE QUALITY ENGINEERING

Time : **3** Hours]   [Total Marks : **100**

Note : Attempt All questions.

1   Attempt any four parts of the following: **5×4=20**

(a)   Explain following terms:
  (1)   Faults.
  (2)   Failures.
  (3)   Defects Rate.
  (4) Defect preventions

(b)   What is cost of software quality?

(c)   What is net satisfaction index (NSI).Describe with example?

(d)   What is defect prevention? Explain defect prevention techniques and practices. .

(e)   What is software review?Explain various types of software reviews.

(f)   Explain various types of software errors and cause of software error?

113601]   **1**   **[Contd...**

2 Attempt any four parts of the following: **5×4=20**

(a) How to measure Customer Satisfaction Metrics? Explain with examples.

(b) What are various quality planning goal and quality plan benefits?

(c) Software Reliability is important issue of measuring quality comments?

(d) Define quality management and what is cost of poor software management?

(e) What is software measurement? Explain with example.

(f) Explain various software maintenance metrics with examples?

3 Attempt any two parts of the following: **10×2=20**

(a) Explain Reliability Growth Model and types of Growth model?

(b) Explain with proper graph Delayed S and Inflection S Models?

(c) Explain Boehm''s Quality Model and its characteristics ?

113601] **2** **[Contd...**

4   Attempt any two parts of the following: **10×2=20**

    (a)   Explain various SQA activities with examples?

    (b)   Explain is six sigma concepts in detail with example.

    (c)   What is benchmarking? Explain benchmarking methodology in detail.

5   Attempt any two parts of the following: **10×2=20**

    (a)   Explain in detail process of software configuration management. Give detail of various software configuration items.

    (b)   What are various CASE tools ? Explain advantages of CASE tools.

    (c)   What is testing tool?Describe the characteristics of modern testing tool?

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