Printed Pages—2   **EIT061**

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

PAPER ID : 2523   Roll No. ☐☐☐☐☐☐☐☐☐☐

B. Tech.

(SEM. VI) THEORY EXAMINATION 2010-11

SOFTWARE QUALITY ENGINEERING

Time : 3 Hours   Total Marks : 100

Note :— Attempt ALL questions.

1. Attempt any **four** parts :   (5×4=20)

   (a) Define software quality with the help of example.

   (b) Explain following terms :

       (i)   Defects

       (ii) Faults

       (iii) Failures.

   (c) What do you mean by inspection process ? Discuss.

   (d) Why do we need documents and metrics in Software Quality Engg. ?

   (e) Define S/W Reliability in brief.

   (f) Discuss various Software Quality Attributes.

2. Attempt any **four** parts :   (5×4=20)

   (a) Differentiate between Fix quality and Software quality.

   (b) What is function points ? Write down its importance.

   (c) What is Phase-Based Defect Removal Pattern ? Explain.

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(d) What is the requirement of customer problem metrics ? Discuss.

(e) Explain backlog, management index for software quality metrics.

(f) Describe various software quality indicators.

3. Attempt any two of the following :   (10×2=20)

   (a) What do you mean by Software Reliability Models ? Explain any two models.

   (b) Discuss Software Quality Assessment Models. Also define criteria for model evaluation.

   (c) Describe the following :

      (i) Software Quality Management

      (ii) Software Re-engineering.

4. Attempt any two of the following :   (10×2=20)

   (a) Discuss about evolution of S/W Quality Assurance. Also define major SQA Activities.

   (b) Describe the following with suitable example :

      (i) Quality Improvement Process

      (ii) Zero defect software.

   (c) Write short notes on the following :

      (i) Total Quality Management

      (ii) Software Quality Standards.

5. Write notes on any two of the following :   (10×2=20)

   (i) Proof of Correctness

   (ii) Software Testing

   (iii) S/W Testing Tools.