(Following Paper ID a	nd Roll No. t	o be fil	led in	your A	nswe	r Bo	ok)
PAPER ID: 2523						_	

B. Tech.

(SEM. VI) THEORY EXAMINATION 2010-11

SOFTWARE QUALITY ENGINEERING

Total Marks: 100

Time: 3 Hours

Note :- Attempt ALL questions.

1. Attempt any four parts:

 $(5 \times 4 = 20)$

- (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.
- 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.

- (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.
- 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.