Total No. of Questions: 18

B.Tech.(CSE/IT) (2011 Onwards E-II) (Sem.-7,8) SOFTWARE TESTING AND QUALITY ASSURANCE

Subject Code: BTCS-905 Paper ID: [A2987]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- 1. Write a short note on testing in multiplatform environment.
- 2. In which type of applications random testing is done?
- 3. Define defect and write the various origins of defects.
- 4. Write the two basic testing strategies used to design test cases.
- 5. Write a short note on formal technical review.
- 6. How do you measure the reliability of the software?
- 7. Differentiate between alpha and beta testing.
- 8. What is Cyclomatic Complexity?
- 9. List all complexity metrics and models.
- 10. What is baseline in context of software configuration management?

1 | M - 7 1 8 9 7 (S 2) - 5 7 9



SECTION-B

- 11. Explain any two tools for testing object oriented system.
- 12. Explain SCM in detail.
- 13. Design test cases for traffic controller.
- 14. Explain the concepts of equivalence class partitioning and boundary value analysis.
- 15. Narrate about the metrics or parameters to be considered for evaluating the software quality.

SECTION-C

- 16. Write notes on:
 - a) Testing web based systems
- 17. Write notes on:
- a) Total Quality Management (TQM)
 b) Capability Maturity M
- 18. a) Explain ETVX approach of software development.
 - b) Differentiate between prototyping model and iterative enhancement model.

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