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

Subject Code: BTCS-905 M.Code: 71897

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. 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. Explain the objective of project planning process.
- 2. Distinguish software faults and software failures.
- 3. What is defect severity?
- 4. Explain product quality metrics.
- 5. How would formulate the cost of defect?
- 6. Explain debugging process in short.
- 7. Differentiate verification and validation.
- 8. How to identify and refine the risk?
- 9. Explain SQA activities in short.
- 10. How to perform client/server system testing.

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SECTION-B

- 11. Units and stubs are not needed for unit testing because the modules are tested independently of one another. Comment on the statement.
- 12. How would you classify integration testing and system testing? Explain with example.
- 13. Differentiate alpha testing from beta testing and discuss in detail about the phases in which alpha and beta testing is done and how it is related to milestone and deliverable.
- 14. Discuss the object oriented metrics. What is the importance of metrics in object oriented software development?
- 15. Why does software fail after it has passed from acceptance testing? Explain.

SECTION-C

- 16. Determine and prepare the test cases for acceptance, usability and accessibility testing 6with the help of real time example.
- 17. Explain the SCM process with version control and change control with the help of suitable example.
- 18. Write short notes on the list given below:
 - a) CMM
 - b) Formal Technical Reviews
 - c) BVA
 - d) ISO 9126

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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