

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

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  
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.

### 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 with 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.**