

M.Sc.- II (Computer Science) (CBCS Pattern) Sem-III  
**PSCST09 - Paper-I : Software Testing Tools and Methodology**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11232**

Max. Marks : 80

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- Notes : 1. All the questions are compulsory and carry equal marks.  
2. Draw net and labelled diagram wherever necessary.  
3. Avoid vague answer and write answer relevant and specific to question only.

- 1.** Either:
- a) Explain the Fundamentals of Test Process. **8**
  - b) Explain the Waterfall Model in detail. **8**
- OR**
- c) Define Testing? Explain the Test Levels. **8**
  - d) Explain the Requirement Behavior and Correctness in detail. **8**
- 2.** Either:
- a) What do mean by Predicates? Explain the Path Predicates and Achievable Paths. **8**
  - b) Explain the term Domain Testing. **8**
- OR**
- c) Explain the Basic Concepts of Path Testing in detail. **8**
  - d) Explain the different Strategies in Dataflow Testing in detail. **8**
- 3.** Either:
- a) Explain the Control Flow and Data Flow in detail. **8**
  - b) Explain the Black Box testing in detail. **8**
- OR**
- c) What is Boundary Value Analysis and Static Analysis? Explain in detail. **8**
  - d) Explain the Intuitive and Experience Based Testing in detail. **8**
- 4.** Either:
- a) Explain the Automation of Test Execution and Requirement Tracker in detail. **8**
  - b) Explain the Tools for Test Management and Control in detail. **8**
- OR**
- c) Explain the Types of Test Tools. **8**
  - d) Explain the Introduction to OO Testing. **8**
- 5.** Attempt all the questions.
- a) What is Software Quality? Explain in short. **4**
  - b) Write a short note on Interface Testing. **4**
  - c) Explain working function of White Box Testing. **4**
  - d) Explain in Short Test Specification **4**

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