

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

P. Pages : 2

Time : Three Hours



GUG/W/24/11232

Max. Marks : 80

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

Either:

1. a) Explain the General principles of Testing in detail. 8
- b) Define SDLC? Explain the W model in detail. 8

OR

- c) What is Testing? Explain the Unit Testing and component Testing. 8
- d) Explain the Requirement Behavior and correctness. 8

Either:

2. a) Explain the following. 8
 - i) Path Predicates.
 - ii) Achievable Paths.
- b) Explain the Transaction flow Testing Techniques. 8

OR

- c) What is Dataflow Testing? Write an Application of Dataflow Testing. 8
- d) Explain the Domain and Interface Testing. 8

Either:

3. a) What is Static Testing? Explain the control flow and Data flow Static Testing. 8
- b) Explain the following. 8
 - i) Block Box Testing.
 - ii) White Box Testing.

OR

- c) Explain the Advanced Write Box Techniques in detail. 8
- d) Explain the following. 8
 - i) Gray Box Testing
 - ii) Static Analysis.

Either:

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| 4. | a) | Explain the types of Test Tools in detail. | 8 |
| | b) | Explain the following. | 8 |
| | i) | Requirement Tracker. | |
| | ii) | Non functional Testing. | |

OR

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|-----------|-----|---|----------|
| | c) | Explain the Object Oriented Testing concepts in detail. | 8 |
| | d) | Explain the following. | 8 |
| | i) | Test specification. | |
| | ii) | Automation of Test Execution. | |
| 5. | | Solve all the questions. | |
| | a) | Explain the basic concept of debugging. | 4 |
| | b) | Write an Application of Path Testing. | 4 |
| | c) | Explain the Boundary value Analysis. | 4 |
| | d) | Explain the Tools for test Management. | 4 |
