

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

P. Pages : 2

Time : Three Hours



GUG/S/23/11232

Max. Marks : 80

-
- 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 concept of Testing and Debugging in detail. 8
- b) Explain the following: 8
 - i) W Model
 - ii) V Model

OR

- c) Explain the Purpose of Testing. 8
- d) Explain the Agile Methodology and its impact on testing. 8

Either:

2. a) Explain the Path Sensitizing and Path Instrumentation. 8
- b) Explain the following: 8
 - i) Application of Dataflow Testing.
 - ii) Domains and Testability

OR

- c) Write an Application of Path Testing. 8
- d) Explain the Domains and Paths in detail. 8

Either:

3. a) Explain in detail Intuitive and Experience Based Testing in detail. 8
- b) Explain the following: 8
 - i) Static Analysis
 - ii) Equivalence Class Partitioning

OR

- c) Explain the following: 8
 - i) Black Box Testing
 - ii) White Box Testing
- d) Explain the cause effect Graphing and Decision Table Technique in detail. 8

Either:

- 4. a) Explain the tools for Test Management and Control. 8
- b) Explain the Automation of Test Execution and Requirement Tracker. 8

OR

- c) Explain the Static Testing and Dynamic Testing. 8
- d) Explain the Non Functional Testing and Test Specification. 8

- 5. Attempt all the questions.
 - a) Write a short note on Test Metrics. 4
 - b) Write in short about Transaction Flows. 4
 - c) Explain the short statement Coverage. 4
 - d) Write a short note on selection and introduction of Test Tools. 4
