

M.Sc. - II (Computer Science) (NEP Pattern) Semester-III
03MSCCS01 - Paper-I : Software Testing and Quality Assurance

P. Pages : 2

Time : Three Hours



GUG/S/25/15967

Max. Marks : 80

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

Either:

1. a) Write in detail about test team organization and its management. 8
- b) Describe in detail the role of testing. 8

OR

- c) Explain in detail the objectives of testing. 8
- d) What is monitoring and measuring test execution? Explain. 8

Either:

2. a) Explain the Weyuker and Ostrand testing theory. 8
- b) What is system Integration testing? Explain. 8

OR

- c) Explain in detail the theory of Gourlay. 8
- d) Write in detail the conditions for reliability. 8

Either:

3. a) How the test is generated from FSM model? Explain. 8
- b) Explain the concept of logging and tracing test. 8

OR

- c) Write a note on following- 8
 - i) Boundary Value Test.
 - ii) Power Cycling Test.
- d) Explain in detail online insertion and removal test. 8

Either:

- | | | | |
|-----------|----|---|----------|
| 4. | a) | Explain in detail Capability Maturity Model Integration (CMMI). | 8 |
| | b) | What are the five views of Software Quality? Write and explain. | 8 |

OR

- | | | | |
|-----------|----|--|----------|
| | c) | What do you mean by Software Process? Write down the basic idea in Software Process. | 8 |
| | d) | Write the McCall's Quality factors and criteria. | 8 |
| 5. | | Attempt all the questions. | |
| | a) | Differentiate between white box and black box testing. | 4 |
| | b) | Write a short note on unit testing. | 4 |
| | c) | What is documentation test? Explain in short. | 4 |
| | d) | Write down the common features & key practices. | 4 |
