

B.E. Computer Science & Engineering (Model Curriculum) Semester-VII
BE102CS - Software Testing and Quality Assurance

P. Pages : 2

Time : Three Hours



GUG/W/24/14232

Max. Marks : 80

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- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and Chemical equation should be given wherever necessary.
 5. Illustrate your answers wherever necessary with the help of neat sketches.
 6. All questions are compulsory.

1. a) List and Explain software testing principles. 8
b) Explain Tester's role in software development organization. 8

OR

2. a) Explain origin of defects with suitable diagram. 8
b) Explain various defect classes with diagram. 8
3. a) Explain Equivalence class partitioning method. 8
b) List and explain in brief various types of white box testing methods. 8

OR

4. a) Explain cause-effect Graphing technique. 8
b) Explain compatibility testing method. 8
5. a) Explain integration strategies for functions and procedure with suitable diagram. 8
b) Explain: 8
 - a) Function testing
 - b) Performance testing.

OR

6. a) Explain designing of integration test with suitable example. 8
b) Explain: 8
 - a) Regression testing
 - b) Acceptance testing.

7. a) List and Explain the various attributes required for test professionals at various job level. 8
- b) Draw and Explain testing team structure for Single Product Company. 8

OR

8. a) Draw and explain component-wise organization structure for multi product companies. 8
- b) List and explain the advantage of CTO model for testing team. 8
9. a) Explain scope of automation and also explain what to automate. 8
- b) Explain components of test automation with suitable diagram. 8

OR

10. a) Explain W-Model for phases involved in automation. 8
- b) Explain various reasons for selecting a test tool as an important aspect of test automation. 8
