

B.E. Eighth Semester (Computer Engineering) (C.B.S.)  
**Elective - III : Software Testing & Quality Assurance**

P. Pages : 2

Time : Three Hours



**KNT/KW/16/7631**

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.
  9. Assume suitable data whenever necessary.
  10. Use of non programmable calculator is permitted.

1. a) Explain unit testing with an Example. 6  
b) Explain Integration Testing system. 7

**OR**

2. a) Give the objectives of testing and explain V-model. 7  
b) Explain monitoring and measuring test execution. 6
3. a) Explain static and Dynamic unit testing. 7  
b) Explain mutation testing with a proper example. 7

**OR**

4. a) List and explain distinguished tools for unit testing. 7  
b) Explain different step involved in code review process in case of unit testing. 7
5. a) Describe path selection criteria. 6  
b) How control flow graph is constructed? Explain along with example. 7

**OR**

6. a) Describe control flow testing and control flow graph. 7  
b) Write a note on generating test input. 6
7. a) Explain in detail system integration techniques. 6  
b) Explain data flow graph and testing criteria. 7

**OR**

8. a) Describe test plan for system integration. 7  
b) Explain different types of interfaces and interfaces errors. 6
9. a) Explain different test code design methods. 7  
b) Explain in short. 7  
i) Robustness test.  
ii) Performance test.

**OR**

10. a) Explain functional specification based test case design. 7  
b) Explain different levels of test execution. 7
11. a) Explain the types of acceptance testing and acceptance criteria. 7  
b) Explain acceptance test plan. 6

**OR**

12. a) Explain ISO 9000: 2000 software quality standard. 7  
b) Explain five views of software quality. 6

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