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Roll No.

322848(22)

APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(CSE, IT Branch)

SOFTWARE TESTING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) & (d).

Unit-I

1. (a) Define software quality. 2
- (b) Explain in detail level of Testing. 7

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- (c) What are the source of information for test case selection? Explain it in detail. 7
- (d) Explain in detail monitoring and measuring test execution. 7

Unit-II

2. (a) Define unit testing. 2
- (b) Explain the theory of Goodenough and Gerhart. 7
- (c) Explain in detail theory of Gourlay. 7
- (d) Differentiate between Static Unit Testing and Dynamic Unit Testing. 7

Unit-III

3. (a) Define domain error. 2
- (b) WAP to print the Fibonacci Series. Draw flow graph and calculate number of independent path. 7
- (c) Describe the comparison between Data Flow and Test selection criteria. 7
- (d) WAP that checks whether the two number entered by the user are equal or not. Draw flow graph and calculate number of independent path. 7

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Unit-IV

4. (a) Define acceptance testing. 2
- (b) Explain in detail requirement identification. 7
- (c) Explain Test Suite structure in detail. 7
- (d) Explain in detail system test design. 7

Unit-V

5. (a) Define Quality assurance. 2
- (b) Explain in detail CMM (Capability Maturity Model). 7
- (c) Explain in detail McCalls Quality factors. 7
- (d) Write short notes on : 7
- (i) SQA Plan
- (ii) ISO 9000