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**B. E. (Eighth Semester) Examination,
April-May 2021**

(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) What is Regression Testing? 2

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- (b) Describe test tool and Automation in detail. 7
- (c) Explain Test planning and Design. 7
- (d) Difference between structural testing and functional testing. 7

Unit-II

2. (a) What is Validation and Varification? 2
- (b) Explain theory of Goodenough and Gerhart. 7
- (c) Explain theory of Weyuker and Ostrand. 7
- (d) What is static unit testing (Code Review) and Dynamic unit testing? 7

Unit-III

3. (a) What is Debugging? 2
- (b) Comparison between Data flow and test selection criteria. 7
- (c) Explain Domain Error and testing of domain error. 7
- (d) What is control flow testing and control flow graph? 7

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Unit-IV

4. (a) Explain Taxonomy of system test. 2
- (b) Write down types of Acceptance testing. 7
- (c) Explain structure of system test plan. 7
- (d) Describe test objective identification in detail. 7

Unit-V

5. (a) What is Software reliability? 2
- (b) Describe Capability Maturity Model. 7
- (c) Short notes on : 7
- (i) Quality Control
 - (ii) Quality assurance
 - (iii) Cost of Quality
- (d) What do you understand by Software Quality assurance? 7

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