

322848(22)

B. E. (Eighth Semester) Examination,

Nov-Dec 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) and (d).

Unit-I

1. (a) What is Testing? 2
- (b) Difference between white box & black box testing. 7

- (c) Describe Test Planning & Design in detail. 7
- (d) Describe test tool & automation. Also define team organization & management diagram. 7

Unit-II

2. (a) Describe the comparison of verification & validation in any Software. 2
- (b) Describe the theory of Goodenough & Gerhart. 7
- (c) Describe Adequacy of testing. 7
- (d) Write short notes on : 7
- (i) Static unit testing & Dynamic testing
- (ii) Debugging

Unit-III

3. (a) Write the classification of defects & error with example. 2
- (b) What is domain error? Explain their types also. 7
- (c) Describe control flow graph in detail. 7

- (d) Comparison between data flow & test selection criteria. 7

Unit-IV

4. (a) Why it is important to develop test cases for both valid & invalid input condition? 2
- (b) Describe Acceptance testing? With their types. 7
- (c) Describe Testing Requirement Identification in detail. 7
- (d) Describe the structure of System Test Plan. 7

Unit-V

5. (a) What is Quality Assurance? 2
- (b) Describe CMM in detail. 7
- (c) Describe five view of Software Quality. 7
- (d) Describe ISO 9000 standard in detail. 7