

Roll No.

3539

**B. Tech. 7th Semester (CSE) Professional
Elective-V Examination – May, 2023**

SOFTWARE TESTING

Paper : PEC-CSE-413-G

Time : Three hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following :

2.5 × 6 = 15

- (a) Software System.
- (b) Error and Fault
- (c) Test Suite
- (d) Dynamic testing
- (e) Walkthrough
- (f) Software testing

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SECTION – A

2. (a) What are the objectives/goals of software testing ?
Also discuss the limitations of software testing. 8
- (b) What are seven fundamental principles of software testing ? Narrate with suitable examples. 7
3. Discuss Software Testing Life Cycle (STLC) in details with diagrams and examples. 15

SECTION – B

4. (a) What do you understand by Test Cases ? Briefly discuss test case plan components. 8
- (b) What is Unit Testing ? Why unit testing is required in a software systems ? Discuss. 7
5. What do you mean by Integration Testing ? What are its different techniques and why it is required in a software system ? Elaborate. 15

SECTION – C

6. (a) Discuss the content of problem report in details. Write various bug reporting tools. 7
- (b) What is bug reproducible ? How we make a bug reproducible ? Explain. 8
7. What do you mean by White Box Testing ? Explain different white box testing techniques with suitable examples. 15

SECTION – D

8. (a) What do you mean by testing tools ? What are its types ? Differentiate manual and automated testing tools with suitable cases. 10
- (b) Exhaustive testing is *not* feasible at all for large and complex system. Justfy. 5
9. What is regression testing ? What are its types and different available testing techniques ? 15
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