M.Sc. DEGREE EXAMINATION,NOVEMBER 2019
II Year III Semester
Software Testing

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. List any two fundamental principles of testing.
2. What is the difference between verification and validation?
3. State true or false: Equivalence partitioning is a white box testing technique.
4. What is the formula for calculating cyclomatic complexity?
5. What are the two types of regression testing? Define each.
6. What is buddy testing?
7. Mention two measures used to estimate the size of the product under test.
8. Mention any two people related best practice in testing.
9. Write the formula for (i) Defects per KLOC (ii) Defect removal rate.
10. Mention any two tools used for automation testing.
11. When is boundary value analysis method used?
12. When is V life cycle model used?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. What are phases of a software project? Explain briefly.
14. What is the need for beta testing? How is it carried out?
15. What is smoke testing? List the steps involved in smoke testing.
16. What is test reporting? What are the types of reports? Explain.
17. Explain how to select a test tool?
18. Explain the roles and responsibilities of usability testing.
19. Fill in the table.

Test cases for testing	**Belongs to what type of testing?**
Check whether log in works	
Repeat log in operation in a loop for 48 hours	
Perform log in from 10000 clients	
Measure time taken for log in operations in different conditions	
Run log in operation from a machine running Japanese language	

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain (i) Water fall model (ii) Spiral model.
21. Explain with an example how code complexity testing is performed?
22. Explain how agile and extreme testing is performed.
23. Explain how risks are managed during testing?
24. What is test automation? Explain the design and architecture for automation.

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