(Time:03 Hours)   (Total Marks:80)

Instructions

1. Question ONE is compulsory

2. Attempt any three out of remaining five questions.

3. Assume appropriate data and state your reasons

4. Marks are given right of the every question

1(a) Differentiate between Exhaustive and Effective testing   5M

1(b) Define the following with example.   5M

   i) Failure   ii) Fault   iii) Error

1(c) Explain Life cycle of a bug.   5M

1(d) Differentiate between CFG and DFG.   5M

2(a) A program reads an integer number within the range [1,100] and determines whether
   it is a prime number or not. Design the test cases for this program using boundary
    value analysis.   10M
2(b) Justify how mutation testing is effective to check the quality of software with an example.   10M

3(a) Draw the control flow graph and find the cyclomatic complexity for a program largest

 of three numbers.   10M

3(b) Explain the different types of Incremental Integration Testing Methods.   10M

4(a) Briefly explain prioritization techniques.   10M

4(b)What is the need of software measurement? .   Explain different size metrics.   10M

5(a) Create a case study on application of ISO 9000 framework to an educational institute.   10M

5(b) Explain the guidelines for automated testing.   10M

6. Write Short notes on

(a) Issues in Object Oriented Testing.   5M

(b) STLC.   5M

(c) Challenges in Testing Data Ware house.   5M

(d) Test Suite Minimization Problem.   5M

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