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**Question Paper Code : 40770**

B.E. /B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Sixth Semester

Information Technology

IT 8076 – SOFTWARE TESTING

(Common to: Computer Science and Engineering/Computer and Communication Engineering)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention the role of test engineer in software development organization.
2. How to classify the types in defect classes?
3. Define unit testing.
4. What is a control flow graph?
5. Outline a test case with an example?
6. What is scenario testing.
7. Define a test plan.
8. Outline the need for a Work breakdown structure.
9. Outline the need for test metrics.
10. What is test automation?

PART B — (5 × 13 = 65 marks)

11. (a) Why it is important to meticulously inspect test result and discover the drawbacks incase if you fail to inspect? Illustrate with example?

Or

- (b) Present an outline of the software testing principles.

12. (a) Discuss in detail about static testing and structural testing. Also write the difference between these testing concepts.

Or

- (b) With suitable example describe how cause-and -effect graphing, and state transition testing is done.

13. (a) Explain the different integration testing strategies for procedures and function with suitable diagrams.

Or

- (b) How would you identify the hardware and software for configuration testing and explain what testing techniques are applied for website testing?

14. (a) Elaborate test management based on standards infrastructure, people, and product.

Or

- (b) What is the role of groups in policy development and test reporting? Give example.

15. (a) Explain the various generations of automation and the required skills for each with an example.

Or

- (b) Outline project, progress and productivity metrics with an example.

PART C — (1 × 15 = 15 marks)

16. (a) Demonstrate the various black box test cases using Equivalence class partitioning and boundary values analysis to test a module for a “Banking system”. State the functional requirements you are considering.

Or

- (b) Assume you are working in an on-line fast food restaurant system. The system reads customer orders. Relays orders to the kitchen, calculates the customer’s bill and give change. It also maintains inventory information. Each wait person has a terminal. Only authorized wait persons and a system administrator can access the system. Describe the tests that are suitable to the test the application.

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