**14CS803A**

**Hall Ticket Number:**

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**IV/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION**

**July, 2021** — **Computer Science & Engineering**

**Eighth Semester** — **Software Testing Methodologies**

**Time:** Three Hours — **Maximum:** 60 Marks

*Answer ALL Questions from PART-A.* (12X1 = 12 Marks)

*Answer **ANY FOUR** questions from PART-B.* (4X12=48 Marks)

## Part – A

1. Answer all questions (12X1=12 Marks)
   a) Differentiate verification with validation.
   b) What is domain testing?
   c) What is cyclomatic complexity?
   d) Differentiate functional testing and non-functional testing.
   e) What is bidirectional integration?
   f) What is a smoke test?
   g) What are the drawbacks of ad-hoc testing?
   h) What is basic accessibility and product accessibility?
   i) Draw the organization structure in early stage of a product.
   j) What is test incident report?
   k) List the generations of automation.
   l) What is schedule variance?

## Part – B

2. a) Explain static testing by humans. 6M
   b) What are the types of coverage required for code coverage testing? Explain them briefly. 6M

3. a) Differentiate positive testing with negative testing. 6M
   b) Explain equivalence partitioning with an example. 6M

4. a) What is defect bash? Explain steps involved in defect bash. 6M
   b) What are the common techniques in functional testing? Explain. 6M

5. a) What is performance testing? List the details that are to be defined for a performance test case. 6M
   b) Explain how to do regression testing? 6M

6. a) Explain pair testing. When pair testing is effective and ineffective? 6M
   b) When to do usability testing? Explain. 6M

7. a) Compare testing and development functions. 6M
   b) Explain testing team structures for a single product company. 6M

8. a) Explain the requirements for test tools. 6M
   b) Describe test planning. 6M

9. a) Explain productivity matrics. 6M
   b) Explain project metrics. 6M