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Paper Id: 214517 Roll No:

MCA

(SEM V) THEORY EXAMINATION 2018-19

SOFTWARE TESTING

Time: 3 Hours *Total Marks: 70*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt *all* questions in brief.** 2 x 7 = 14

   a. What is software testing? Why it is necessary?
   b. Define Errors, faults and failures.
   c. Differentiate between testing and debugging.
   d. Define Test Management.
   e. Discuss the GUI Testing.
   f. What are Test cases, Testing suite and Test oracles?
   g. Differentiate between Static and Dynamic Slicing.

SECTION B

2. **Attempt any *three* of the following:** 7 x 3 = 21

   a. Discuss the black-box, white-box and gray box testing.
   b. Explain the Boundary Value Analysis (BVA) with an example.
   c. What is regression testing? When and how it is performed?
   d. Explain the software testing life cycle?
   e. What is web testing? List the goal of quality process.

SECTION C

3. **Attempt any *one* part of the following:** 7 x 1 = 7

   (a) Differentiate between Verification and Validation.
   (b) Write short note on Walkthrough and Code Inspection.

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4. **Attempt any *one* part of the following:** 7 x 1 = 7

   (a) Explain Decision Table Based testing with an example.
   (b) Explain cyclomatic complexity with its significance.

5. **Attempt any *one* part of the following:** 7 x 1 = 7

   (a) What are the different methodologies of integration testing?
   (b) Write short note on the following:
      (i) Tools for regression testing.
      (ii) Progression testing.

6. **Attempt any *one* part of the following:** 7 x 1 = 7

   (a) Explain the Exploratory testing and worst case testing with example.
   (b) Explain the following:
      (i) Software testing tools.
      (ii) Software test plan.

7. **Attempt any *one* part of the following:** 7 x 1 = 7

   (a) Explain Load testing and Smoke testing with suitable example.
   (b) Explain the following:
      (i) Deployment testing.
      (ii) Beta Testing.

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