Roll No. Total No. of Pages : 02

Total No. of Questions: 09

MCA (Sem.-3) SOFTWARE TESTING & QUALITY ASSURANCE

Subject Code: PGCA-1931 M.Code: 90808

Date of Examination: 07-01-2023

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION B & C have FOUR questions each.
- 3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
- 4. Select atleast TWO questions from SECTION B & C.

SECTION-A

1. Write short notes on:

- a) Explain the object oriented scenario based testing.
- b) Write about testing security.
- c) Explain graph based testing and how does it help in testing process?
- d) Discuss about code coverage testing.
- e) Differentiate stress testing from load testing.
- f) What is white box testing?
- g) Explain integrity, interoperability.
- h) What is the need for test plan development?
- i) Explain SQA activities in short.
- i) How to perform client/server system testing?

1 M-90808 (S112)-1602

SECTION-B

- 2. Define software testing. Explain various level of testing with the help of V-model. Differentiate alpha testing from beta testing and discuss in detail. What do you interpret from the basis path testing? Explain the concept of loop testing.
- 3. Define quality attributes. Explain correctness, reliability, integrity, interoperability. Discuss how these are related to testing?
- 4. What do you understand by object oriented testing? Discuss the various methods for class testing.
- 5. Demonstrate the various black box test cases using Equivalence class partitioning and boundary values analysis to test a module for ATM system.

SECTION-B

- 6. Explain configuration management for web engineering.
- 7. Explain software reviews. Which phase conducts the formal technical review step.
- 8. What are software quality assurance metrics? Explain in detail that how it is related to milestone and deliverable? Describe SQA activities. Explain its ISO 9000 standards in detail.
- 9. Write short notes on the list given below:
 - i) SPICE
 - ii) Risk projection
 - iii) Change control
 - iv) ISO 9126.

NOTE: Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

2 | M-90808 (S112)-1602