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Total No. of Pages : 02

Total No. of Questions : 09

MCA (Sem.-6) SOFTWARE TESTING & QUALITY MANAGEMENT Subject Code : MCA-604 M.Code : 74758 Date of Examination : 12-07-22

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1. What is Software Testing? What are the objectives and purpose of software testing? Discuss the basic principles of testing in detail.
- 2. Discuss in detail the different types of software testing and their applicability.

SECTION-B

- 3. What do you mean by Path testing? What are the techniques of path testing? Discuss in detail.
- 4. Explain regular expression and flow anomaly detection.

SECTION-C

- 5. Define the term Software Quality. Discuss various quality attributes and standards.
- 6. What is Total Quality Management (TQM)? Discuss the various TQM models in brief.

SECTION-D

- 7. What is Quality Planning? What are the different tools and techniques for software quality planning?
- 8. Elaborate in detail any two tools used for quality control.

SECTION-E

9. Briefly answer the following :

- a) *"Can software be completely tested"*? Justify your answer.
- b) Define the problem of infeasible paths.
- c) What are testing levels?
- d) What is white-box testing?
- e) What is a Flow Graph?
- f) What are Path Sums?
- g) What is a Metric? What is the use of metrics? Name any two software quality metrics?
- h) What is CMMI?
- i) Define the term Software Quality Assurance.
- j) What are quality audits? What is their use?

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