Roll No. p

Total No. of Questions : 09

Total No. of Pages : 02

MCA (2015 & Onward) (Sem.–6)
SOFTWARE TESTING & QUALITY MANAGEMENT
Subject Code : MCA-604
M.Code : 74758

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 its objectives? What are the limitations of testing? Briefly discuss the different levels of testing with examples.

2. What do you mean by testing strategy? Discuss in detail the various testing strategies.

SECTION-B

3. What is Data Flow Testing? What are the advantages of Data Flow Testing? Explain the Data Flow Model with an example.

4. What is a Regular Expression? Discuss regular expressions and flow anomaly detection in detail.

SECTION-C

5. What do you mean by Software Quality? What are the various attributes of quality? Explain each with examples.

6. Discuss the process of quality planning. What are the various tools and techniques for quality planning?

SECTION-D

7. What is SQA plan? Explain the activities involved in SQA plan.

8. Briefly discuss the following :

   a) Control charts

   b) Pareto diagrams

SECTION-E

9. Write briefly :

   a. Define the terms :

      Error, Fault and Failure.

   b. Differentiate between testing and debugging. c. What is hybrid approach to software testing? d. Differentiate between p-use and c-use with an example. e. What is a path predicate? f. What is path product? g. What are the various metrics for software quality? h. Discuss the SPICE project in brief. i. What are the different levels of CMMI model?

   j. Define quality audit.

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.