25-May-18   03:00 pm - 06:00 pm   T8733 - MASTER'S DEGREE IN COMPUTER APPLICATIONS
(M.C.A.)[Choice Based] SEMESTER - III / T2583 - Software Testing and Quality Assurance   37519

Q. P. Code: 37519

(3 Hours)   Marks: 80

N.B.:
1) **Question No.1 iscompulsory.**
2) **Attempt any three from the remaining five questions.**
3) **Answer to sub-questions should be grouped together.**

1. a) Explain with a neat labeled diagram structure of V Model.   **(10)**
    b)Explain the various principles of software testing.   **(10)**

2   a) Explain the different activities involved in planning a test.   **(10)**
    b) What is Static testing? Discuss data flow analysis with an example.   **(10)**

3   a) Explain equivalence partitioning and boundary value analysis with an example   **(10)**
    b) What are the different test tool selection criteria? Give steps required to   **(10)**
       select a tool?

4   (a)Explain statement coverage and branch coverage technique with suitable   **(10)**
    example?
    (b)Discuss testing of Object oriented systems.   **(10)**

5. (a) What are the generic requirements for test tools /frameworks?   **(10)**
    (b) Explain in detail SQA planning.   **(10)**

6. Writeshortnoteson(**anyfour**)   **(20)**
    a) Testing & debugging
    b) System testing
    c) ISO 9126 characteristics
    d) Reviews
    e) Metrics for software maintenance

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