13. Consider a program to classify a triangle. Its I/O is a triple for positive integers in range [1...500]. The program output will be one of the following :

(a) All sides different

(b) Two sides different

(c) Three sides different

(d) Not a triangle

(e) Sum of square of two sides equal to square of third side.

Design equivalence classes for the program.

Or

Explain the various types of estimation tetchiness. Which technique is more effective ? Why ? **11**

Roll No. ..... **Exam Code : M-19**

Subject Code—385

M.C.A. (Third Year) EXAMINATION

(Main & Re-appear for Batch 2009 Onwards)

(5 Years Integrated Course)

SOFTWARE ENGINEERING

MCA-303

Time : 3 *Hours* *Maximum Marks :* 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. Explain the importance of acceptance testing in software testing. What are the various types of acceptance testing ? Explain briefly.

2. Explain role of cause-effect diagram with suitable diagram.

3. Differentiate between Cohesion and Coupling. How there are related to each other ?

4. What changes should be brought to Waterfall Model so that it can be applicable to software really ?

5. Differentiate between GANT and PERT chart. Explain briefly with suitable example.

6. Write short on Demerits of water-fall model and their rectification.

7. What is the significance of McCabe's cyclomatic number ? List out its various disadvantages.

8. Define the terms Faults and failure. How these are related to each other ?

9. Write brief note on risk management.

10. Define Software reliability. Software reliability is said to be relative term ? Justify.

Section B

Note : Attempt all the questions.

11. Explain the importance of Software Development life cycle model for software development. Describe V-shaped model for SDLC. List out the advantages and disadvantages of the model. **12**

Or

What is 'Risk Analysis' ? List the major risks in Software Projects. What are the possible ways to abate the risks of cost and schedule overruns ?

12. Explain the concept of maintenance. Is maintenence important ? Comment. Describe the various categories of maintenance. **12**

Or

What are the quality standards ? Describe CMM Model. Compare between CMM and ISO-9001.