13. Describe the term LOC and FP. Explain the major issues involved with estimation of Function Point. Why are function points important at Loc ? Explain briefly.

Or

What is risk management ? Explain briefly various risk management activities. **11**

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

Subject Code—0106

M. Sc.(CS)/M.C.A. EXAMINATION

(Batch 2009 Onwards)

(Third Semester)

SOFTWARE ENGINEERING

MS-12

(MCA-3 Years)

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

Section A

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

1. What is 'Software Crisis' ? State its significance in Software Engineering.

2. What are the various levels of testing ? Why we required these levels ? Explain briefly.

3. FP is known as top down approach and LOC is known as bottom up approach. Justify this statement.

4. Define the terms Coupling, Cohesion, Software Quality, Software Quality Assurance.

5. Define the term Metric Measure, Direct Measure, Indirect measure, Measurement. Explain the importance of measure in Software engineering.

6. List out various reliability metrics with various application areas.

7. Explain the role of acceptance testing in software testing. Why does software fail even after it has passed acceptance testing ?

8. Write brief note on Risk Management.

9. Differentiate between Top Down and Bottom up design approach.

10. Explain the role of Cause-effect diagram with suitable diagram.

Section B

Note : Attempt all the questions.

11. Explain COCOMO model for cost estimation. What are the limitations of COCOMO model ? **12**

Or

What is prototype ? Under what circumstances is it beneficial to construct a prototype ? Does the construction of prototype always increase the cost of software development ?

12. Describe the role and use of Coupling and Cohesion in software design process through an example. Enumerate different types of coupling and cohesion. **12**

Or

Explain JM and GO reliability models. What are the limitations of reliability models ?