MCA/D-17
SOFTWARE ENGINEERING
Paper: MCA-14-13

Time: Three Hours   Maximum Marks: 80

Note: Attempt five questions including No. 1 which is compulsory. All questions carry equal marks.

Compulsory Question

1. (a)   Define software and software engineering.

    (b)   Differentiate between process and product matrics.

    (c)   Discuss the importance of Data Dictionary.

    (d)   Explain the features of ER-Diagram.

    (e)   What do you mean by User interface design?

    (f)   Discuss the term exception handling.

    (g)   Discuss the term integration testing.

    (h)   What do you mean by Debugging?

                              UNIT=II

2. Discuss in detail the working of Spiral model.

3. Discuss the staged SEI-CMMI model.

                              UNIT-II

4. Explain multivariate COCOMO MODEL WITH EXAMPLE.

5. Draw and explain the ER-Diagram for Library management system.

                              UNIT-III

6. Discuss the factors which play important role in deciding design of software.

7. Discuss the features of JM model for software reliability with example.

UNIT-IV

8. What do you mean by Testing? Explain Control flow-based and Data flow-based testing with reference to outcome of these testing.

9. Write short note on the following :
   (a) Walk Through.
   (b) Reverse Engineering.