

MCA/D-16
SOFTWARE ENGINEERING
PAPER: MCA-14-13

Time Allowed: 3 Hours

Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Discuss the features of software and software engineering.
(b) Define process, project and product metrics
(c) Discuss the importance of data dictionary.
(d) Explain the features of DFD.
(e) Explain the term fault avoidance.
(f) Discuss the term Function oriented design.
(g) Discuss the term unit testing.
(h) Discuss the important points of software maintenance.

Unit-I

2. Discuss in detail the working of Water fall model and list its advantages and disadvantages.
3. Discuss the Quality Standard ISO-9001.

Unit-II

4. Explain the terms :
 - (a) Risk Management
 - (b) Software Configuration Management.
5. Draw and explain the ER-Diagram for Banking Management system.

Unit-III

6. What do you mean by Function oriented design and User interface design?
7. Explain the following terms :
 - (a) Structured programming.
 - (b) Programming style.

Unit-IV

8. What do you mean by testing? What is the importance of testing? Explain Alpha and Beta Testing.
9. Write short note on :
 - (a) Boundary value analysis
 - (b) Equivalence class testing
 - (c) Cause effect Graphing.