

Roll No.

Total Pages : 3

MCA/D-19

10012

MCA

(Software Engineering)

Paper-MCA-14-13

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Answer the following questions in brief :
 - (a) What are the major causes of Software crisis ?
 - (b) What are the salient features of ISO 9001 requirements ?
 - (c) Distinguish between Behavioral and Non-behavioral requirements.
 - (d) What approach is followed in the structured analysis technique of organizing information during problem analysis ?
 - (e) List the desirable characteristics that a good user interface should possess.
 - (f) Distinguish between Functional abstraction and Data abstraction.
 - (g) What do you mean by Equivalence class testing ?
 - (h) What is Control flow based testing ?

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UNIT-I

2. What is the goal of any Development Process ? How is a process model related to it ? Compare the different Software Development Paradigms or the Processes.
3. What are Software metrics and Measures ? List and describe the various types of Software metrics.

UNIT-II

4. What are the major issues that a project plan addresses ? Give a brief description of each.
5. (a) What are the different types, components and levels of DFD ?
(b) List the desirable characteristics of a good Software Requirements Specification (SRS) document.

UNIT-III

6. Describe what is meant by Coupling and Cohesion in the context of software design. How are these concepts useful in arriving at a good design of a system ? Discuss the classification of Coupling and Cohesion.
7. (a) Specify the basic constructs of structured programming.
(b) Define the term software reliability and describe the metrics used to measure software reliability.

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UNIT-IV

8. Describe and distinguish between the following :
 - (a) Unit Testing, integration testing and system testing.
 - (b) Black-box testing and White-box testing.
9. Why is maintenance considered to be a part of software evaluation ? What techniques are used for maintenance of Software ?

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