Question Paper Code : 8376

B.Tech. (Semester-V) Examination, 2021

SOFTWARE ENGINEERING
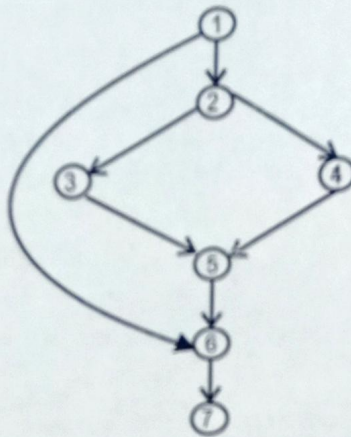
[Paper : CS-503]

Time : Three Hours]   [Maximum Marks : 70

Note : Attempt **any five** question. All questions carry **equal** marks.

1.   Explain prototype model. Differentiate between prototype and spiral model.   [14]

2.   Draw an ER Diagram for an 'Airline Reservation System'. Explain its components.   [14]

3.   Explain :

   (a)   SEI-CMM model   [7]

   (b)   ISO 9000   [7]

4.   Explain requirement engineering process and analysis. [14]

5.   Draw a use case diagram for an ATM system. Explain its components.   [14]

6.'   Consider the following diagram :

Control Flow Graph

(a)   Find cyclomatic complexity.   [7]

(b)   Calculate the independent path.   [7]

7.   Compare :

(a)   Top-Down and Bottom Up Testing.   [7]

(b)   Regression and Acceptance Testing.   [7]

8.   Explain static testing strategies. Elaborate various types of testing techniques used in this.   [14]

9. Elaborate :

    (a)   COCOMO model   [7]

    (b)   Software Re-Engineering Process.   [7]

10. Explain :

    (a)   CASE tools   [7]

    (b)   Software Quality Attributes.   [7]

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