BT-6/M-20   **36117**

SOFTWARE ENGINEERING

Paper–CSE-310 N

Opt. : (I)

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

UNIT–I

1. (a) Explain the term 'software crisis' with the help of an example.   7

     (b) Elaborate the software characteristics.   8

2. (a) Draw the diagram of spiral model for software development and explain it.   5

     (b) What are the advantages of using V model?   5

     (c) What do you understand by the term 'prototype'?   5

UNIT–II

3. (a) Explain requirement engineering process.   5

     (b) Why feasibility study is necessary?   5

     (c) What is data flow diagram? Explain DFD with the help of suitable example.   5

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4. Explain the following terms :

    (a) Software risk management.

    (b) Software configuration management.

    (c) Software quality assurance.   15

UNIT–III

5. (a) What are the important points that should be considered while designing a software ?   5

    (b) What do you understand by 'pseudo codes'?   5

    (c) Differentiate between coupling and cohesion.   5

6. (a) Explain top-down and bottom-up design.   8

    (b) Explain function point.   7

UNIT–IV

7. (a) Write a short note on structured programming.   8

    (b) Discuss acceptance testing and regression testing. 7

8. (a) Differentiate between software testing and debugging.   5

    (b) Define software maintenance. Explain its types.   5

    (c) Write a short note on software Re-engineering.   5

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