Faculty of Science & Technology

Fifth Semester B.Tech. (Computer Science & Engg.) (C.B.C.S.) Examination

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Time : Three Hours]   [Maximum Marks : 70

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Solve Question No. 1 **OR** Question No. 2.

(3) Solve Question No. 3 **OR** Question No. 4.

(4) Solve Question No. 5 **OR** Question No. 6.

(5) Solve Question No. 7 **OR** Question No. 8.

(6) Solve Question No. 9 **OR** Question No. 10.

(7) Due credit will be given to neatness and adequate dimensions.

(8) Assume suitable data whenever necessary.

(9) Illustrate your answers whenever necessary with the help of neat sketches.

1. (a) Explain the layered view of software engineering in detail.   7

    (b) Explain Waterfall model of software development with diagram.   7

OR

2. (a) Explain software myths and realities related with them.   7

    (b) Describe Spiral model for Software Development. State its advantages and drawbacks.   7

3. (a) Explain system engineering hierarchy in detail.   7

    (b) Define requirement engineering. Explain steps in requirement engineering.   7

OR

4. (a) Explain Product Engineering hierarchy representing all the four views.   7

    (b) Explain the elements of Use-Case diagram in scenario based model with example.   7

5. (a) Explain with diagram how analysis model can be translated into design model.   7

    (b) Write short note on cohesion and coupling along with their types.   7

OR

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6. (a) Write short note on pattern based software design.   7

    (b) Explain the process of user interface analysis and design.   7

7. (a) Differentiate between black box testing and white box testing.   7

    (b) Explain the Art of Debugging with diagram.   7

OR

8. (a) What is risk ? Explain different types of risk in software engineering.   7

    (b) Write short note on RMMM plan.   7

9. (a) Explain McCall's software quality factors.   7

    (b) Explain Formal Technical Review (FTR) in detail.   7

OR

10. (a) Explain various layers of SCM process.   7

    (b) Explain software reengineering process in detail with diagram.   7