Sixth Semester B. E. (C. T.) (C.B.S.) Examination

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Time : Three Hours]   [Max. Marks : 80

N. B. :   (1) All questions carry marks as indicated.
           (2) Solve Question 1 OR Question No. 2.
           (3) Solve Question 3 OR Question No. 4.
           (4) Solve Question 5 OR Question No. 6.
           (5) Solve Question 7 OR Question No. 8.
           (6) Solve Question 9 OR Question No. 10.
           (7) Solve Question 11 OR Question No. 12.
           (8) Illustrate the answers with necessary figures/ drawings wherever necessary.
           (9) Assume suitable data wherever necessary.

1.   (a) What are the different characteristics of software and hardware ? Explain it with diagram.   6

     (b) Comment on "Software engineering a layered Technology".   4

     (c) Define Software engineering.   3

OR

2.   (a) Explain spiral model as combination of life cycle model and prototype model.   7

     (b) Write note on (any **two**) :—

         (i) RAD model.

         (ii) Prototying model.

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(iii) Extreme programming.

(iv) Adaptive software development. 6

3. (a) What do you mean by SRS ? Explain it in brief.
7

(b) What are the elements of system modeling? 6

OR

4. (a) What is System engineering? Explain with help of diagram. 7

(b) What is FAST ? Explain it in detail. 6

5. (a) What are the different constructs in Analysis modeling ? 6

(b) Explain the following terms :

(i) Abstraction.

(ii) Information hiding.

(iii) Refactoring.

(iv) Pattern modularity. 8

OR

6. (a) Explain Data flow diagram in detail. Give the extension suggested by ward and mellor. 8

(b) Explain behaviour model in detail. 6

7. (a) Explain White–box testing in detail. 7

(b) Explain Black–box testing in detail. 7

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8. (a) What are the different types of system testing? Explain in brief. 7

    (b) What do you mean by Software debugging ? Explain in brief. 7

9. (a) What is SQA ? Explain briefly. 7

    (b) Explain Metrics for source code measurement. 6

10. (a) Why LOC is not accepted universally as a standard metric for software development ? 6

    (b) Explain function point metric state opponents and proponents comment on it. 7

11. Write note on :—

    (i) Project scheduling.

    (ii) RMMM plan.

    (iii) SCM. 4+4+5

OR

12. (a) What is Software Reengineering ? Explain it with diagram. 6

    (b) What do you mean by Risk ? What are different types of Risk ? 7

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