Roll No. ....   Total Pages : 2

MCA/DX   **5568**

SOFTWARE PROJECT MANAGEMENT
Paper : MCA-505 (V)

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *five* questions in all. Question No. 1 is compulsory. In addition to question number 1 attempt *four* more questions, selecting *one* question from each Unit.

1. (i)   What do you understand by formal technical review ?
    (ii)   Write a short note on Earned value analysis.
    (iii) Define cyclomatic complexity.
    (iv)   What is risk prioritization ?
    (v)   What do you understand by Software Configuration Item (SCI) ?
    (vi)   What are the limitations of linear sequential model ?
    (vii) What is walkthroughs ?
    (viii) Differentiate between project and process metrics.

                                               3×8=24

UNIT–I

2. (a)   What do you understand by software crisis ? What were the factors responsible for software crisis ? Explain.   7

    (b)   What do you understand by Extreme Programming (XP) ? What are its pros and cons ? Explain.   7

3. (a) Differentiate between Throwaway prototyping and evolutionary prototyping. 7

(b) Write short note on Incremental development to lessen risks. 7

UNIT–II

4. What do you understand by Critical Path Method (CPM) ? What are the different steps in CPM project planning ? Discuss the limitations of CPM method. 14

5. What do you understand by top-down and bottom-up planning ? Explain the use of PERT in project planning. 14

UNIT–III

6. (a) What do you understand by risk mitigation ? Discuss the necesssary steps to be taken for risk mitigation. 7

(b) What is function point analysis ? Discuss its use in project planning. 7

7. What are the different factors affecting the cost of software ? Write a detailed note on Advanced COCOMO. 14

UNIT–IV

8. Define software quality. What are the major software quality characteristics as per ISO 9126 ? Discuss. 14

9. Write short notes on the following :

(a) Version control. 7

(b) Change control. 7

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