(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 110852   **Roll No.** [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

B.Tech.

(SEM. VIII) THEORY EXAMINATION 2013-14
SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours   *Total Marks : 100*

Note :– Attempt **all** questions.

1. Answer any **two** parts :   **(2×10=20)**

    (a) What do you mean by the software project estimation ?
        Give various estimation models. Describe any one of the
        estimation models using suitable examples.

    (b) Explain Need and Identification of Software Project
        Management. Also write a vision and scope document
        according to the IEEE standard in respect of SPM.

    (c) Write short notes on :

        (i) Decision Process.

        (ii) Software Project Planning and its scope.

2. Answer any **two** parts :   **(2×10=20)**

    (a) Differentiate between :

        (i) PERT and CPM

        (ii) Gantt chart and Milestone chart

(b) Describe Project schedule with

    (i)   Scheduling Objectives

    (ii)   Scheduling Terminology

    (iii) Scheduling Techniques

    in detail with suitable example.

(c) Write short notes on :

    (i)   Work breakdown structure with its type.

    (ii)   Project life cycle and Product life cycle.

3.   Answer any two parts :   (2×10=20)

(a) What do you mean by 'Code Review' ? Also discuss the difference between Code Inspection and Code Walkthrough.

(b) What do you understand by 'Earned Value Analysis' ? Discuss the following indicators :

    (i)   Cost Variance (CV)

    (ii)   Schedule Performance Index (SPI)

    (iii) Cost Performance Index (CPI)

(c) Describe the characteristics of a good software metric. Also discuss various software metrics for Project Monitoring.

4.   Answer any two parts :   (2×10=20)

(a) How would you define 'Software Quality' ? What do you mean by Software Quality Assurance ? Also discuss the various Software Quality Activities.

(b) What do you mean by Testing ? Describe Type and Levels of Testing in brief. Also discuss all Testing strategies with suitable example and diagram.

(c) Describe the following terms :

    (i)   Clearoom process.

    (ii)   SEI - CMM.

5.   Write notes on any two parts :   (2×10=20)

(a) Software Configuration Management

(b) Risk Management Process

(c) MS-Project.