Paper Code: CS-071

Roll No.

B.TECH.
SEVENTH SEMESTER EXAMINATION, 2016-17
SOFTWARE PROJECT MANAGMENT

[Time: 3 Hours]   [Max. Marks: 100]

Note: Attempt all question. All question carry equal marks.

1. Attempt any four parts of the following: -   **(5x4=20)**

    (a) What is Project Management? What are the key elements of Project Management?
    (b) What is difference between Conventional Management and Software Project Management?
    (c) Discuss different objective of Software Project Management?
    (d) How many types of plan can do for Software Project Management?
    (e) What do you mean by Software Project Estimation? Why estimation is needed in SPM?
    (f) Explain COCOMO model in detail.

2. Attempt any four parts of the following: -   **(5x4=20)**

    (a) Explain Management Spectrum in detail.
    (b) What is WBS? How WBS is useful for project organization.
    (c) Differentiate between Product Lifecycle and Project Lifecycle
    (d) Explain PERT Chart and Gantt chart.
    (e) How can we organize personnel in different ways?
    (f) What do you mean by Project Schedule? Explain Objectives of Scheduling.

3. Attempt any two parts of the following: -   **(10x2=20)**

    (a) What is Earned Value Analysis? Explain its indicators in detail.

    (b) Given the following information for a one year project :
        (i) Budgeted Cost of work scheduled =Rs 230000/-
        (ii) Budgeted Cost of work performed =Rs 230000/-
        (iii)Actual Cost of work performed =Rs 230000/-
    Find out:
        (i) Cost Variance
        (ii) Schedule Variance
        (iii)Cost Performance Index
        (iv)Schedule Performance Index
        (v) Analyze the result using interpretation of values.

    (c) What is the significance of Project monitoring and control? Explain Software Review and its types in details.

4. Attempt any two parts of the following: - **(10x2=20)**

    (a) What do you mean by Testing? Why testing is needed in Software Projects. Also describe level of testing and its objectives in detail.

    (b) Explain SEI CMM model? Also discuss two models of Software Quality Attributes in detail.

    (c) Difference between the following:

        (i) Black Box testing and White Box Testing
        (ii) Verification and Validation

5. Attempt any two parts of the following: - **(10x2=20)**

    (a) Explain Software Configuration Management. Discuss how can we Control the Change and explain its Change Request Management in detail.

    (b) What are different types of risks involved in an organization? Explain Risk Management Process in detail.

    (c) What do you mean by CASE Tool? Explain its importance? What are the building blocks for CASE?