Paper Code: ECS-082   **Roll No.**

B Tech
(SEM VIII) EVEN SEMESTER EXAMINATION, 2015-16
SOFTWARE PROJECT MANAGEMENT

[Time: 3 Hrs.]   **[MM: 100]**

Note: - Attempt ALL questions.

1. Answer any two parts of the following: -   **[10x2=20]**
   (a) What is the significance of software management? Explain. Describe the various steps of project management cycle in detail.

   (b) (i) Write a short note on software project management framework.
       (ii) What are the various types of project plans? Discuss.

   (c) (i) Write a short note on COCOMO model.
       (ii) What do you understand by vision and scope document? Explain.

2. Answer any two parts of the following: -   **[10x2=20]**
   (a) Write a short note on the following:
        (i) Comparison between Product life cycle and project life cycle.
       (ii) Project schedule and various project scheduling objectives.

   (b) Define the term work breakdown structure (WBS)? Describe various types of WBS.

   (c) (i) What is a milestone chart? Why it is used? Discuss with example.
       (ii) Discuss various project elements.

3. Answer any two parts of the following: -   **[10x2=20]**
   (a) What do understand by software project review? Explain. Discuss various methods for software project review. Explain with suitable example.

   (b) What are the various dimensions of project monitoring and control? Discuss with suitable example.

   (c) What do mean by earned value analysis. What are various types of earned value indicators? Describe any two earned value indicators with suitable examples.

4. Answer any two parts of the following: -   **[10x2=20]**
   (a) Discuss SEI Capability Maturity Model in detail.

   (b) (i) Differentiate between program verification and program validation with suitable example.
       (ii) What are different types of testing? Discuss.

   (c) Define cyclomatic complexity. What is the significance of it? How cyclomatic number is calculated? Discuss with some example.

5. Answer any two parts of the following: -   **[10x2=20]**
   (a) What do you understand by software configuration management? Explain. Describe various software configuration items and tasks.

   (b) Discuss the following:
       (i) Cost benefits analysis.
       (ii)CASE tools.

   (c) What do you understand by risk management? Explain. Describe the risk management process in detail.