M. TECH
(SEM II) THEORY EXAMINATION 2022-23
SOFTWARE PROJECT PLANNING AND MANAGEMENT

Time: 3 Hours   *Total Marks: 70*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   **Attempt *all* questions in brief.**   **2 x 7 = 14**

   (a)   Define software metrics with example.
   (b)   Discuss the importance of Project closure.
   (c)   Discuss why risk management is necessary.
   (d)   List metrics for design & development phase.
   (e)   Discuss different inputs for software requirement gathering
   (f)   Discuss the purpose of the maintenance phase in software project management.
   (g)   List the advantages of globalization in project management.

SECTION B

2.   **Attempt any *three* of the following:**   **7 x 3 = 21**

   (a)   Discuss the key objectives of software configuration management
   (b)   Discuss the key steps involved in project planning.
   (c)   Explain Dimensions of requirements gathering
   (d)   How is the priority of maintenance tasks determined? Discuss it.

   (e)   In what ways has the internet enhanced project planning and tracking capabilities in software project management, and what challenges or risks may arise as a result? Discuss it.

SECTION C

3.   **Attempt any *one* part of the following:**   **7 x 1 = 7**

   (a)   Illustrate the key activities involved in software configuration management? Discuss each activity and its significance.
   (b)   Discuss the key considerations when selecting and defining software metrics for a specific project.

4.   **Attempt any *one* part of the following:**   **7 x 1 = 7**

   (c)   Illustrate some best practices for tracking and reporting on individual tasks within a software project, and how can they be implemented effectively
   (d)   Discuss the key activities involved in project closure

5.   **Attempt any *one* part of the following:**   **7 x 1 = 7**

(a) Illustrate translating size estimate into effort estimates and effort estimates into schedule estimates

(b) Discuss the benefits of effective project management in software design and development.

6.   **Attempt any *one* part of the following:**   **7 x 1 = 7**

(a) Describe the role of documentation in the maintenance phase of software projects. How can project managers ensure that documentation is updated and accessible to the maintenance team?

(b) Explain project management principles be effectively applied to software testing projects to ensure successful outcomes.

7.   **Attempt any *one* part of the following:**   **7 x 1 = 7**

(a) Describe different Globalization issues in Project management.

(b) Discuss the main challenges and obstacles that organizations might face when adopting People-Focused Process Models.