B. TECH.
(SEM VII) THEORY EXAMINATION 2022-23
SOFT WAREPROJECT MANAGEMENT

Time: 3 Hours   *Total Marks: 100*

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

SECTION A

1.   **Attempt *all* questions in brief.**   **2 x 10 = 20**

(a)   What is a project?
(b)   What do you mean by S.M.A.R.T.?
(c)   What are the different types of cost related to project development?
(d)   How are decision trees helpful in risk handling?
(e)   What are the different approaches used in identifying activities?
(f)   Difference between forward pass and backward pass.
(g)   What are the decision tree analysis steps for a given project 'x'?
(h)   Define change control.
(i)   Define organization.
(j)   What do you understand by risk management?

SECTION B

2.   **Attempt any *three* of the following:**   **10x3 = 3**

(a)   Why we use Constructive Cost Model and what is the difference in all its three types?
(b)   What you understand by work break structure (WBS)? What are the various types of WBS? What is the role of WBS directory and what the contents of it? Explain.
(c)   Describe function point analysis. How function points are used in estimation of cost and efforts using decomposition techniques.
(d)   How a project can be monitored and controlled? Describe the dimensions of the project monitoring and control.
(e)   Discuss about Cost-benefit analysis in detail.

SECTION C

3.   **Attempt any *one* part of the following:**   **10x1=10**

(a)   What do you mean by earned value indicator? Show the relationship between ACWP and AC.
(b)   What do you mean by Software review? What are the various types of software reviews?

4.   **Attempt any *one* part of the following:**   **10x1=10**

(a)   Discuss software maturity model with its process diagram.
(b)   Name the various project scheduling techniques. Explain any one of them in detail.

5.   **Attempt any *one* part of the following:**   **10x1=10**

   (a) What are the various types of testing strategies? Explain.
   (b) What is scope of a project? What is step wise project plan? Explain.

6.   **Attempt any *one* part of the following:**   **10x1=10**

   (a) What are SPM framework and the various SPM objectives? Explain.
   (b) Discuss about software quality factors and attributes. How SEI CMM model is different from ISO 9000?

7.   **Attempt any *one* part of the following:**   **10x1=10**

   (a) Explain Software Configuration Items, Tasks and Baselines.
   (b) Write short note on any two of the following:

   i.   Project Management Performance.
   ii.   Project Lifecycle and Product Lifecycle.
   iii.   Types of maintenance.