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**B. TECH**  
**(SEM-VII) THEORY EXAMINATION 2020-21**  
**SOFTWARE PROJECT 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.	Explain validation
b.	Define project schedule.
c.	Describe Cost Variance
d.	Define Walkthrough.
e.	Explain Pair Programming
f.	Describe Risk identification
g.	Explain Cost Benefit Analysis
h.	Define the need of SPM
i.	Explain Statistical quality assurance
j.	Describe SQA activities.

**SECTION B**

**2. Attempt any three of the following: 10x3=30**

a.	Define Project Plan and its type. Also describe the structure of a Software Project Management Plan.
b.	Explain Milestone Charts and Gantt Charts with suitable diagram
c.	Describe Software Review. Explain various types of reviews in detail.
d.	Define Software Quality and Software Quality Attributes in detail.
e.	Describe CASE Tool in detail.

**SECTION C**

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

a.	Explain Software Project Management. Describe Project Management Cycle in detail.
b.	Define Software project estimation. Explain estimation methods in detail.

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

a.	Describe Work Breakdown Structure. Explain the evolution of planning fidelity in the WBS over the life cycle.
b.	Explain and compare Project Life Cycle and Product Life Cycle.

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

a.	Write short notes on followings (i) Budgeted Cost for Work Scheduled (ii) Earned Value Analysis
b.	Explain Cost Performance Index (CPI) and Schedule Performance Index (SPI) in detail.

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

a.	Describe Testing objectives and level of testing in brief
b.	Explain the SEI Capability Maturity Model in detail.

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

a.	Define Risk and its type. Explain Risk Breakdown Structure (RBS) in detail.
b.	Illustrate various Planning and Scheduling Tools of project management