

Paper Id: **113501**

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**B. TECH.**  
**(SEM V) THEORY EXAMINATION 2019-20**  
**SOFTWARE PROJECT MANAGEMENT**

**Time: 3 Hours****Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief.** **2 x 7 = 14**
- List the qualities required for project manager.
  - Define CMM.
  - Differentiate CPI and SPI.
  - Discuss MS Project.
  - Define activity-on-Arrow. State its use in project management.
  - What is earned value analysis?
  - State the purpose of statement of work.

**SECTION B**

- 2. Attempt any three of the following:** **7 x 3 = 21**
- How do we measure productivity? How does team structure affects productivity?
  - Is the critical path important if only one person is working on a software project? Discuss the concept of PERT/CPM in defining an optimal schedule.
  - Discuss cost benefit analysis in details. What are the following terms: net profit value, return on investment, and payback period?
  - Discuss software project management. What are the need for SPM? Explain Structure of a Software Project Management Plan.
  - Explain with example how gantt chart is useful for project manager.

**SECTION C**

- 3. Attempt any one part of the following:** **7 x 1 = 7**
- Discuss and differentiate Project Life Cycle and Product Life Cycle with example.
  - Explain following term: SPM framework with example, project estimation model, milestone chart
- 4. Attempt any one part of the following:** **7 x 1 = 7**
- What do you mean by work breakdown structure (WBS) in context to software project and product? Discuss with examples. How it is useful for project manager?
  - What are the Dimensions of Project Monitoring & Control? Discuss using example.
- 5. Attempt any one part of the following:** **7 x 1 = 7**
- Discuss about software quality factors and attributes.
  - Discuss Interpretation of Earned Value Indicators. Write short notes on Error Tracking, Cost Variance, and Pair programming.
- 6. Attempt any one part of the following:** **7 x 1 = 7**
- What is critical path method? Write the advantages and disadvantages of critical path method. How we identify the critical path. Explain.
  - Explain SEI capability maturity model. How does it differ from ISO 9000?
- 7. Attempt any one part of the following:** **7 x 1 = 7**
- Discuss important point's specific for identifying the risk during software development. Also, give some of the category of risk that are to be identified.
  - What do you understand by CASE tools? Explain in details.