

Paper Id:

113501

Roll No:

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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 you are permitted to do so suitably.

SECTION A

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

SECTION B

2. **Attempt any three of the following:** **7 x 3 = 21**
- a. How do we measure productivity? How does team structure affects productivity?
 - b. 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.
 - c. Discuss cost benefit analysis in details. What are the following terms: net profit value, return on investment, and payback period?
 - d. Discuss software project management. What are the need for SPM? Explain Structure of a Software Project Management Plan.
 - e. 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**
- (a) Discuss and differentiate Project Life Cycle and Product Life Cycle with example.
 - (b) Explain following term: SPM framework with example, project estimation model, milestone chart
4. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) 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?
 - (b) What are the Dimensions of Project Monitoring & Control? Discuss using example.
5. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) Discuss about software quality factors and attributes.
 - (b) 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**
- (a) What is critical path method? Write the advantages and disadvantages of critical path method. How we identify the critical path. Explain.
 - (b) Explain SEI capability maturity model. How does it differ from ISO 9000?
7. **Attempt any one part of the following:** **7 x 1 = 7**
- (a) 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.
 - (b) What do you understand by CASE tools? Explain in details.