

**B.Tech**  
**(SEM -VII) THEORY EXAMINATION 2018-19**  
**SOFTWARE PROJECT MANAGEMENT**

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

1. **Attempt all questions in brief.** **2 x10 = 20**
- Differentiate between task and activities.
  - Define the term Project and Management
  - What are Risk assessment activities?
  - How does software project different from other engineering project?
  - Differentiate between test plan and test cases
  - Give your understanding about Automation Testing?
  - What are the advantages of pair programming?
  - How is CPI different from SPI?
  - What is Black Box testing?
  - What is Desk Checking?

**SECTION B**

2. **Attempt any three of the following:** **10 x 3 = 30**
- What do you mean by work breakdown structure in context software project and product? Discuss with example.
  - Describe the characteristics of a good software metric. Also discuss various software metrics for Project Monitoring
  - Elaborate on the planning and organizing for Software Configuration Management (SCM) which includes potential SCM problem classes, staffing and tools. Also state the benefits of SCM process and tools.
  - Explain the SEI/CMM Process model with its maturity levels and the key process areas for each level?
  - Discuss briefly about Earned Value Indicators?

**SECTION C**

3. **Attempt any one of the following:** **10 x 1 = 10**
- What is the difference between project life cycle and product life cycle?
  - Briefly explain COCOMO model for cost estimation for all category of projects
4. **Attempt any one part of the following:** **10 x 1 =10**
- Write short note on SPI & CPI?
  - What do you mean by software review? Why it is important? What are different types of reviews?
5. **Attempt any one part of the following:** **10 x 1 = 10**
- What are software testing objectives? Discuss different types & levels of testing in details?
  - What do you mean by proof of correctness? Also discuss the difference between code inspection and code walkthrough?
6. **Attempt any one part of the following:** **10 x 1 = 10**
- What do understand by software configuration management? What are the various configuration items and task? Discuss with suitable example.
  - With a suitable illustration, how risk management is managed during critical part in software project management?
7. **Attempt any one part of the following:** **10 x 1 = 10**
- Describe the Putnam Model of software estimation?
  - Explain with examples the scheduling fundamental. Explain PERT scheduling in terms of network diagram with neat sketches?