

**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
- a. Differentiate between task and activities.
  - b. Define the term Project and Management
  - c. What are Risk assessment activities?
  - d. How does software project different from other engineering project?
  - e. Differentiate between test plan and test cases
  - f. Give your understanding about Automation Testing?
  - g. What are the advantages of pair programming?
  - h. How is CPI different from SPI?
  - i. What is Black Box testing?
  - j. What is Desk Checking?

## SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30
- a) What do you mean by work breakdown structure in context software project and product? Discuss with example.
  - b) Describe the characteristics of a good software metric. Also discuss various software metrics for Project Monitoring
  - c) 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.
  - d) Explain the SEI/CMM Process model with its maturity levels and the key process areas for each level?
  - e) Discuss briefly about Earned Value Indicators?

## SECTION C

3. Attempt any *one* of the following: 10 x 1 = 10
- a) What is the difference between project life cycle and product life cycle?
  - b) Briefly explain COCOMO model for cost estimation for all category of projects
4. Attempt any *one* part of the following: 10 x 1 =10
- a) Write short note on SPI & CPI?
  - b) 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
- a) What are software testing objectives? Discuss different types & levels of testing in details?
  - b) 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
- a) What do understand by software configuration management? What are the various configuration items and task? Discuss with suitable example.
  - b) 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
- a) Describe the Putnam Model of software estimation?
  - b) Explain with examples the scheduling fundamental. Explain PERT scheduling in terms of network diagram with neat sketches?