

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?