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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?