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B.TECH.**THEORY EXAMINATION (SEM–VIII) 2016-17**
SOFTWARE PROJECT MANAGEMENT**Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Attempt the following:****10 x 2 = 20**

- (a) Explain SPM Framework.
- (b) Explain the term Project Scope with example.
- (c) Enumerate the authorities of a Project Manager.
- (d) Compare PERT and CPM.
- (e) Write the steps of software development.
- (f) Explain cost benefit Analysis.
- (g) What is meant by Software configuration management?
- (h) Explain unit testing and system testing.
- (i) What do you mean by Code Inspection?
- (j) What is the difference between change control and version control?

SECTION – B**2. Attempt any five of the following questions:****5 x 10 = 50**

- (a) Give the Overview of the stepwise planning of the software project Development.
- (b) What do you mean by Work Break down Structure in context to software project and product? Discuss with example.
- (c) Explain all types of Risks which occurs during software development.
- (d) Define various type of testing strategies with example
- (e) What do you understand by Verification and validation? Explain their difference with example.
- (f) Write COCOMO model in detail.
- (g) Explain project monitoring and controlling process. Explain different dimensions of project monitoring and control.
- (h) Discuss the different steps of preparing the schedule. What are the Inputs and outputs required by Schedule?

SECTION – C**Attempt any two of the following questions:****2 x 15 = 30**

- 3** What do you understand by “Earned Value Analysis”? Discuss the following Progress indicators:
 - (i) Cost Variance
 - (ii) Schedule performance Index(SPI)
 - (iii) Cost Performance Index (CPI)
- 4** Explain the following:
 - (i) Software Quality Attributes
 - (ii) SEI-CMM
- 5** Explain various types of software project management Tools.