

B.TECH.**THEORY EXAMINATION (SEM–VI) 2016-17
SOFTWARE PROJECT MANAGEMENT***Time : 3 Hours**Max. Marks : 100**Note : Be precise in your answer.***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 parts 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 parts of the following:** **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.