

Printed Pages - 4

NOE-077

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2012361

Roll No. 

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**B. TECH.**

Regular Theory Examination (Odd Sem-VII), 2016-17

**SOFTWARE PROJECT MANAGEMENT**

*Time : 3 Hours*

*Max. Marks : 100*

**SECTION - A**

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (10×2=20)
- a) What are the characteristics that make Software Projects different from other projects?
  - b) How do you define project activities in Software Project Management?
  - c) What is the requirement of having stepwise project planning?
  - d) How does the Milestone chart helps in Scheduling?
  - e) What do you mean by Code Review? Why it is needed in project?

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- f) Differentiate between Schedule Performance Index(SPI) and Cost Performance Index(CPI)
- g) What is the role of stake holders in Software Project?
- h) Distinguish between verification and validation of Software Products.
- i) What is Test case? Give an example.
- j) What do you understand by the term CASE Tools?

**SECTION - B**

**Note: Attempt any 5 questions from this section(5×10=50)**

- 2. If project cannot be delivered within the deadline, explain how it will be changed in stepwise project planning. Explain your answer with a suitable example?
- 3. What is the need of Software Project estimation? How it is utilized in project plan? Discuss the various estimation methods with neat example?
- 4. What is mean by earned value analysis? What are the different types of earned value indicators? Describe any two earned value indicators with suitable examples?
- 5. Explain the SEI/CMM process model, its maturity levels and the key process areas for each level?

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- 6. Compare product life cycle and Project life cycle with an example. What is Gantt charts? Explain their use in Scheduling?
- 7. Discuss briefly about the Cost variance and Schedule Variance with example?
- 8. What is mean by proof ofCorrectness? Also discuss the difference between Code Inspection and Code Walkthrough?
- 9. With a suitable illustration, explain how Risk Management is managed during critical part in Software Project Management?

**SECTION - C**

**Note: Attempt any 2 questions from this section(2×15=30)**

- 10. Explain with examples the scheduling fundamental. Explain PERT and CPM scheduling in terms of network diagram with neat sketches?
- 11. 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.

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**12. Write short note on the following :**

- i) Project Validation Technique
- ii) Risk Monitoring
- iii) Network diagrams

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