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

Paper ID : 2012361   Roll No. ☐☐☐☐☐☐☐☐☐☐☐

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 of Correctness? 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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