



Printed Pages : 3

TCS-042

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

PAPER ID : 0670

Roll No.

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## B. Tech.

(SEM. VIII) EXAMINATION, 2007-08

### SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

1 Attempt any **four** parts of the following :  $5 \times 4 = 20$

(a) What is Software Project Management (SPM)?  
What are the various activities of SPM?

(b) What do you mean by software project? How  
does it differ from any other project?

(c) In reference to project planning, discuss the terms  
'milestones' and 'deliverables'?

(d) What do you mean by stakeholders? Who may  
be the stakeholders in a software project?

(e) What is meant by Software Project Estimation?  
Discuss.

(f) What is the requirement of having a stepwise  
project planning?

2 Attempt any **four** parts of the following:  $5 \times 4 = 20$

(a) What do you mean by Work Breakdown Structure  
(WBS) in context to software project?

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- (b) Discuss in brief:
- (i) Gantt Chart
  - (ii) Milestone Chart.
- (c) What are the time estimates used in PERT? Briefly discuss their significance.
- (d) What do you understand by the term "Critical path"?
- (e) What are the ways to organize the personnel of a software development organization ?
- (f) Differentiate between 'Process WBS' and 'Product WBS'.

3 Attempt any **two** parts of the following: **10×2=20**

- (a) What do you mean by 'Code Review'? Also discuss the difference between Code Inspection and Code Walkthrough.
- (b) What is meant by 'Error Tracking'? Why is error tracking an excellent management practice ?
- (c) What do you understand by 'Earned Value Analysis'? Discuss the following progress indicators:
  - (i) Cost Variance (CV)
  - (ii) Schedule Performance Index (SPI)
  - (iii) Cost Performance Index (CPI)

4 Attempt any **two** parts of the following : **10×2=20**

- (a) How would you define 'Software Quality'? What do you mean by software quality assurance? Also discuss the various software quality assurance.
- (b) Discuss the SEI Capability Maturity Model in detail.



- (c) Distinguish between software verification and software validation. When, during the software life cycle are verification and validation performed? Can one be used in place of the other?

5 Attempt any **two** parts of the following : **10×2=20**

- (a) What is meant by Software Configuration Management? What are the principal activities involved in SCM? Why is SCM crucial to the success of a large software project?
- (b) List the common types of risks that a typical software project might suffer from. If you are the project manager of a large software development project, what steps would you follow to manage risks in your software project.
- (c) What do you understand by the term "CASE" Tools? What are the main advantages of using CASE tools? Also discuss and draw the architecture of a CASE environment.
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