

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

PAPER ID : 2526

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION 2010-11

SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours

Total Marks : 100

Note : Attempt all questions.

1. Answer any **two** parts : **(10×2=20)**
- (a) What do you understand by software project planning ?
What are the various planning objectives ? Also discuss various types of project plans with suitable example.
- (b) Write short notes on the following with suitable example :
- (i) Software project estimation models
 - (ii) Structure of a software project management plan.
- (c) Describe the following :
- (i) Vision and scope document
 - (ii) Management Spectrum
 - (iii) SPM framework
 - (iv) Decision Process.

2. Answer any two parts : (10×2=20)

(a) What do you understand by work break structure (WBS) ?
What are the various types of WBS ? What is the role of
WBS directory and what the contents of it ? Explain.

(b) (i) What is the difference between the project life cycle
and product life cycle ? Discuss.

(ii) Write a short note on organizational behavior.

(c) What do you mean by project scheduling ? What are the
scheduling objectives ? How to build the project schedule ?

3. Answer any two parts : (10×2=20)

(a) What is the significance of project monitoring and control ?
What are the various dimensions of project monitoring and
control ? Does monitoring and control affect the project
schedule ? Discuss.

(b) (i) What do you understand by schedule performance
index (SPI) ? Discuss.

(ii) What do you mean by software review ? What is the
significance of software reviews in software project
management ?

(c) Write short notes on the following with examples :

(i) Code Review

(ii) Error Tracking.

4. Answer any two parts : (10×2=20)

- (a) (i) What is software testing ? What are software testing objectives ? Discuss various types of testing in detail.
- (ii) Write a short note on testing automation and testing tools.
- (b) (i) What is the difference between testing principles and testing strategies ? Discuss.
- (ii) What is the difference between program verification and program validation ? Explain the life cycle verification approach with suitable diagram.
- (c) (i) Write a short note on SEI capability maturity model (CMM).
- (ii) Explain the term statistical quality assurance and clean room process.

5. Answer any two parts : (10×2=20)

- (a) What do you understand by software configuration management (SCM) ? What are various software configuration items and tasks ? Discuss with suitable example.
- (b) Describe the following with example :
 - (i) Risk breakdown structure (RBS)
 - (ii) Cost benefits analysis.
- (c) What is the role of a software project management tool ? Describe any software project management tool in detail.