

7E4237

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**B.Tech. (Sem.VII) (Main/Back) Examination- Dec. 2012**  
**Information Technology**  
**7IT1 Software Project Management (Common to CS & IT)**

Time : 3 Hours

Total Marks : 80  
 Min. Passing Marks : 24

**Instructions to Candidates :**

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

**UNIT - I**

1. (a) What do you mean by software project management? Explain the activities which is to be performed in software project management. (8)  
 (b) Explain the types of plans which is to be considered during the software project planning. (8)

**OR**

1. (a) (i) What are the major issues in controlling software engineering project. (4)  
 (ii) Explain the TQM (Total Quality Management). (4)  
 (b) What do you mean by organizing a software engineering project? Explain in brief the organizing activities for a software project. (8)

**UNIT - II**

2. (a) (i) Explain the attributes of software quality. (4)  
 (ii) What is cyclomatic complicity? Explain it. (4)  
 (b) (i) Explain the COCOMO model. (4)  
 (ii) What do you mean by Software Project Estimation? Explain it. (4)

**OR**

2. (a) Explain the following :  
 (i) Empirical estimation model.  
 (ii) Object dish (-) oriented project estimation.  
 (iii) Decomposition techniques.  
 (iv) Estimation for Web Engineering project. (16)

**UNIT - III**

3. (a) Differentiate between : Reactive Vs proactive risk strategies. (4)  
 (b) What is Software Risk? Explain the following:  
 (i) Risk Identification  
 (ii) Risk Projection  
 (iii) Risk mitigation  
 (iv) Risk Monitoring (12)

**OR**

3. (a) (i) Explain the process of building the software Quality Assurance plan. (4)  
 (ii) Explain the function point analysis in details. Illustrate with an example. (4)  
 (b) Describe the following: (any two)  
 (i) Approaches of SQA  
 (ii) Change Management.  
 (iii) Configuration Management for Web Engineering. (8)

**UNIT - IV**

4. (a) What is the basic requirement of Software Configuration Management (SCM) system? How do you plan and organize for an SCM? (8)
- (b) (i) Explain statistical Software Quality Assurances. (4)
- (ii) What are the sources of changes? Why should change be made in a controlled way? (4)

**OR**

4. Explain the following (any four) :
- (i) Software Configuration Management Process
- (ii) Formal Technical Reviews
- (iii) Formal Approaches to SQA
- (iv) Software Configuration Management Repository
- (v) One Person Review. (16)

**UNIT - V**

5. Write short notes on any four:
- (i) Review Process
- (ii) NAH syndrome
- (iii) Group Review Meeting
- (iv) Monitoring Quality
- (v) Review Committee Members and their roles. (16)

**OR**

5. (a) Explain the role of closure analysis and performing closure analysis. (8)
- (b) Explain various tracking in project monitoring and control. (8)