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**B. Tech. VII Semester (Main) Examination, Nov-Dec - 2011**

**Computer Engineering**

**7CSI Software Project Management**

**(Common with 7CSI & 7IT1)**

**Time : 3 Hours**

**Maximum 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) Explain the terms project, program, portfolio and Management Related to project Management (10)
- b) Describe processes and program management Roles in detail. (6)

**OR**

1. a) Explain the Knowledge areas of project management processes in detail. (8)
- b) Give the metrics for software Quality also explain how a software metrics program is established. (8)

**Unit - II**

2. Explain different approaches used in Estimation in detail also give the role of expert judgement in Estimation. (16)

**OR**

2. What is empirical estimation? Explain COCOMO (Constructive Cost Model) With the help of Appropriate example. (16)

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**Unit - III**

3. a) What is project scheduling? Explain earned value analysis related to project scheduling. (10)
- b) Write short note on Proactive Risk strategies (6)

**OR**

3. a) Explain Quantitative approaches used to measure Quality with its types (8)
- b) Describe the role of Quality process planning and Defect prevention planning in Quality planning. (8)

**Unit - IV**

4. a) Explain various Quality attributes of Quality management (8)
- b) Give the schematic of Defect prevention process with detailed explanation. (8)

**OR**

4. What are the key functions of configuration management? Give the schematic of changes to software components and reasons for Making changes to software. (16)

**Unit - V**

5. a) Explain Review process with its types in detail with the proper guidelines for it in projects (10)
- b) Write short note on NAH syndrome (6)

**OR**

5. a) Explain the Role of Tracking in Project Monitoring with their types in detail. (8)
- b) What is closure analysis? How closure analysis is performed? Explain. (8)