B.Tech. (Sem. VII) (Main) Examination, Nov-Dec - 2011
Computer Science
7CS1 Software Project Management

Time : 3 Hours

Total Marks : 80
Min. Passing Marks : 24

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)

UNIT - III

3. (a) What is product 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.

   (b) Describe the role of quality process planning and defect prevention in planning 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 closer analysis? How closure analysis is performed? Explain. (8)