

(2½ hours)

Total Marks: 75

- N. B.: (1) All questions are compulsory.  
 (2) Make suitable assumptions wherever necessary and state the assumptions made.  
 (3) Answers to the same question must be written together.  
 (4) Numbers to the right indicate marks.  
 (5) Draw neat labeled diagrams wherever necessary.  
 (6) Use of Non-programmable calculators is allowed.

1. Attempt any two of the following: 10
  - a. "For every \$1 you spend on development, you will spend \$2 on maintenance". Discuss with reference to conventional software management performance.
  - b. Explain the process and importance of Cost Estimation.
  - c. Describe the staffing principles given by Boehm.
  - d. What are the basic parameters of software economics?
  
2. Attempt any two of the following: 10
  - a. List the phases of life cycle process? Explain the Elaboration stage.
  - b. Compare the software design and software architecture.
  - c. Explain the process of team cohesion.
  - d. List and explain the implementation set artifact.
  
3. Attempt any two of the following: 10
  - a. Define the term Workflow. Describe the major workflows involved in software development.
  - b. Write a short note on Major Milestones.
  - c. What are the check points of the process? Explain the sequence of check points.
  - d. Define Work Breakdown Structure (WBS). Explain the issues with conventional WBS.
  
4. Attempt any two of the following: 10
  - a. What is Line of Business Organization? Explain the role of Software Engineering Process Authority (SEPA).
  - b. What are the responsibilities of software management team?
  - c. Write a note on round trip engineering.
  - d. Define the term Configuration Baseline. What are two classes of baselines?
  
5. Attempt any two of the following: 10
  - a. What are management indicators? Explain any two.
  - b. Define Metrics. Discuss the characteristics of good metrics.
  - c. Discuss the two primary dimensions of process variability.
  - d. Compare small commercial project with large, complex project on the basis of workflow priorities.
  
6. Attempt any two of the following: 10
  - a. Explain continuous integration approach of modern project management.
  - b. "80% of the progress is made by 20% of the people" Discuss with reference to early risk resolution.

[TURN OVER]

- 30  
702
- c. Compare conventional software process with modern iterative process framework.
  - d. Discuss the benefits of next generation cost estimation models.

7. Attempt any three of the following:

- a. State and Explain the quality drivers to improve software economics.
- b. Compare meta and micro processes
- c. Explain the Iteration planning process.
- d. What is Software Change Orders (SCO)? Explain the basic fields of SCO.
- e. Explain the concept of process maturity.
- f. "Quality Assurance is everyone's job not a separate discipline". Discuss with reference to cultural shifts.

15

[munotes.in](http://munotes.in)