

## SOFTWARE ENGINEERING

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Explain the primary goal of software engineering.
2. How programmers spend their time in the entire life cycle of project development?
3. Give the format of a system definition.
4. Explain maintenance phase.
5. A large software product is more expensive to develop than a small one – justify.
6. Give the work break down structure of the process oriented project.
7. Explain HIPO charts.
8. How real time systems are designed?
9. Explain system testing.
10. Explain analysis phase of software maintenance.

Answer any FOUR questions.

11. Explain the factors to be considered in setting project goals.
12. Explain the evolution of the software project through successive versions.
13. How to estimate software maintenance cost?
14. Explain cohesion and its types.
15. Explain formal verification in testing.
16. Write short notes on :
  - (a) Symbolic execution.
  - (b) Debugging.

PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. Explain different cost estimation techniques.
18. Explain PSL/PSA.
19. Explain Jackson structured programming.