

Roll No.....

Printed Pages: 2

19037

BCA/M-15
SOFTWARE ENGINEERING
Paper-BCA-316

Time allowed: 3 hours]

[Maximum marks: 80

Note: Attempt **five** questions in all, selecting at least **one** question from each unit.
All questions carry equal marks.

UNIT-I

1. (a) What is Software Engineering? What are the Factors involved in the emergence of software engineering? Explain.
(b) What do you mean by Software project planning? Also discuss various activities of software project planning.
2. What is the essence of software Life-cycle model? Explain in detail prototyping model giving its advantages and disadvantages.
3. (a) What do you mean by cost estimation in project planning? What are uncertainties in Cost estimation?
(b) What do you mean by software review? Also explain review guidelines.
4. Discuss the objectives of structured analysis. List and explain four tools used for structured analysis.
5. Explain in detail the following design concepts:
 - (a) Architectural design
 - (b) Procedural design
6. Write short notes on the following:

- (a) Object oriented design paradigm
- (b) SRS document

UNIT-III

- 7. (a) What do you mean by Coding? State its purpose.
(b) What do you mean understand by Programming style? Discuss its importance. Also explain several components and style aids of a good programming style.
- 8. (a) What is Software testing? Explain different objectives of software testing.
(b) Discuss the principles of software testing. Also explain the limitations of software testing's.

UNIT-IV

- 9. (a) List various advantages and disadvantages of White box testing and black box testing.
(b) Write short notes on the following:
 - (i) Equivalence class testing.
 - (ii) Dataflow based testing
- 10. (a) What are various types of software maintenance.
(b) Write short note on Software Configuration management process of activities.