

## Bachelor of Science (B.Sc. I.T.) Semester–IV (CBS) Examination

## SOFTWARE ENGINEERING

## Paper–I

Time : 3 Hours]

[Maximum Marks : 50

**N.B. :—** (1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

**EITHER**

1. (A) Write a note on 'Changing nature of Software'. 5
- (B) What is Software Myth ? Explain the following myths :
  - (i) Management
  - (ii) Customer
  - (iii) Practitioner 5

**OR**

- (C) Explain following generic phases of software development :
  - (i) Definition
  - (ii) Development
  - (iii) Maintenance 5
- (D) Explain the evolving role of software. 5

**EITHER**

2. (A) Describe software development life cycle. 5
- (B) What is Software Requirement ? Explain user and system requirements. 5

**OR**

- (C) Write a note on 'evolutionary process model'. 5
- (D) Explain spiral model of software development. 5

**EITHER**

3. (A) Explain Data Modeling with suitable example. 5
- (B) Write a note on 'Requirements Validation'. 5

**OR**

- (C) What is a Software ? Explain feasibility study in requirement engineering process. 5
- (D) What is System Model ? Explain behavioral model. 5

**EITHER**

4. (A) Relate various stages of Analysis model with the design model. 5
- (B) What are the goals of a good software design ? Explain how these goals can be achieved. 5

**OR**

- (C) Write a note on 'Software design principles'. 5
- (D) Explain the following :
  - (i) Coupling
  - (ii) Cohesion. 5

5. (a) Explain any three characteristics of software. 2½
- (b) Explain role of prototyping in software development. 2½
- (c) Write a note on 'Object Model'. 2½
- (d) Write a note on 'Evolution of software design'. 2½