

**Bachelor of Science (B.Sc. I.T.) Semester—IV (C.B.S.) Examination**  
**SOFTWARE ENGINEERING**  
**Paper—I**

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw neat and labelled diagrams wherever compulsory.

**EITHER**

1. (A) What is Software ? Explain evolving role of software. 5
- (B) Explain different Myths related to software. 5

**OR**

- (C) Write a short note on the Capability Maturity Model Integration (CMMI). 5
- (D) Explain the following :—
  - (i) Process pattern
  - (ii) Process assessment. 5

**ETHER**

2. (A) Explain Waterfall model in detail with suitable diagram. 5
- (B) Explain Evolutionary Process Models. 5

**OR**

- (C) Explain different functional and non-functional requirements of software. 5
- (D) Explain the following :
  - (i) User requirement
  - (ii) System requirement. 5

**EITHER**

3. (A) Explain Context models in System model. 5
- (B) What is Feasibility Study ? Explain need of Feasibility Study. 5

**OR**

- (C) Explain Data models in detail. 5
- (D) Explain Analysis and Requirement Validation in Feasibility Study. 5

4. **EITHER**

(A) What are different elements used in data designing elements in Engineering ? 5

(B) Explain the following in design concept of Engineering :

(i) Abstraction

(ii) Modularity. 5

**OR**

(C) Explain design process and design quality. 5

(D) Explain Interface design elements in Design model. 5

5. (A) Explain layered technology in process. 2½

(B) Explain Interface specification. 2½

(C) Explain Object Models in detail. 2½

(D) Give architecture of design concept in Design Engineering. 2½