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