Bachelor of Science (B.Sc.) Semester—II (C.B.S.) Examination

COMPUTER SCIENCE (System Analysis and Design)

Compulsory Paper—2

Time : Three Hours]　　　　　　　　　　　　　　　　　　　[Maximum Marks : 50

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

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) What for interview technique is used ? Differentiate between structured and unstructured interview. 5

(b) Draw system development life cycle and explain all its phases in brief. 5

OR

(c) What is questionnaire ? State guidelines to design a questionnaire. 5

(d) Discuss economic and organizational feasibility. 5

EITHER

2. (a) What is DFD ? List various symbols used to draw DFD with their meaning. Give one example. 5

(b) Explain different validation checks which can be applied to input design. 5

OR

(c) List main categories of output and explain any four. 5

(d) Write principles of code design. 5

EITHER

3. (a) What is system conversion ? List conversion methods and explain any two methods. 5

(b) Why is training important ? Describe training methods in brief. 5

OR

(c) Write a short note on :

　　　'System Evaluation'. 5

(d) Why is testing necessary ? Explain different levels of testing. 5

EITHER

4.   (a)   Write a short note on ISO 9000 certification. 5

     (b)   Discuss the following attributes which a software product must have :

           (i)   Portability

           (ii) Maintainability

           (iii) Reusability

           (iv) Adaptive

           (v)   Perfective. 5

OR

     (c)   Write a short note on Software Reliability. 5

     (d)   Discuss skills that a software project manager should possess. 5

5.   Attempt **ALL** :

     (a)   Draw a diagram of Computerized Information System and explain all its components.

           2½

     (b)   Give purpose of using codes. Explain with example :

           (i)   Sequential Code

           (ii) Block Code. 2½

     (c)   Explain how evaluation helps in system development process. 2½

     (d)   Draw maintenance process model-2. 2½