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

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

   (2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) What are the different components of the information system ? Briefly give its importance.   5

   (b) What is questionnaire ? Explain different types of questions with example to be used for gathering the information.   5

OR

   (c) Explain organizational and technological feasibility.   5

   (d) What role does system analyst play in information system development ?   5

EITHER

2. (a) What are the different symbols used to draw Data Flow Diagrams (DFD) ? Give its meaning.   5

   (b) Write short note on output design.   5

OR

   (c) Give the importance of code system and discuss principles of code design.   5

   (d) Why is input validation important ? Explain different types of validations.   5

EITHER

3. (a) Explain the following conversion methods :

   (i) Cold Turkey method

   (ii) Moduler method.   5

   (b) Why is training important to employee before implementing an information system in an organization ? Explain training methods in brief.   5

OR

(c) What is testing ? List and explain different levels of testing.   5

(d) What factors are considered in system evaluation ? State its importance.   5

EITHER

4. (a) What do you mean by project planning and project size estimation ? Explain.   5

   (b) Explain project risk, business risk and technical risk.   5

OR

   (c) Explain the following :

      (i) Software reliability

      (ii) Software quality.   5

   (d) In information system what can be reused ? What are the basic issues with reuse ?   5

5. (a) Explain the subsystem with suitable example.   2½

   (b) List principles of form design.   2½

   (c) What is system maintenance ? Explain.   2½

   (d) Give full form of :

      (i) CPM

      (ii) PERT

      (iii) WBS.   2½