

**Bachelor of Science (B.Sc.) Semester-II  
(C.B.S.) Examination  
COMPUTER SCIENCE  
Compulsory Paper-II  
(System Analysis and Design)**

**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) Explain following data collection method :
  - (i) Questionnaire
  - (ii) Interview. 5
- (b) What is feasibility study ? Explain organizational and technological feasibility. 5

**OR**

- (c) What is SDLC ? Explain different phases of SDLC. 5
- (d) Define system in brief and explain components of system. 5



## **EITHER**

2. (a) Write short note on Data Dictionary. 5  
(b) What is form ? Write principles of form design. 5

## **OR**

- (c) What is Decision tree ? Explain how it is used for decision making with examples. 5
- (d) Write short notes on :  
(i) Input validation  
(ii) System tolerance. 5

## **EITHER**

3. (a) What do you mean by system documentation ? Explain its need. 5  
(b) What is system testing ? State and explain different levels of system testing. 5

## **OR**

- (c) Explain Modular and Sequential method of conversion. 5  
(d) Explain System Evaluation. 5

## **EITHER**

4. (a) What is project planning ? What different factors that should be considered in project planning ? 5

- (b) How PERT are used in scheduling project activities ? 5

**OR**

- (c) What is software maintenance ? Give different characteristics of software maintenance. 5
- (d) What is reusability of software ? Discuss basic issues involved in software reusability. 5

**5. Attempt ALL :**

- (a) What is cost benefit analysis ? Explain in brief. 2½
- (b) Explain human factor consideration while designing a system. 2½
- (c) Why training is important ? Explain. 2½
- (d) What is ISO9000 certification ? 2½