

**Bachelor of Science (B.Sc. I.T.) Semester-I Examination**  
**SYSTEM ANALYSIS AND DESIGN**  
**Paper-III**

Time : 3 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 is Feasibility ? Explain :

(i) Economic feasibility

(ii) Technical feasibility

(iii) Social feasibility

(iv) Operational feasibility.

5

(B) What is fact finding ? Explain the different fact finding techniques.

5

**OR**

(C) Explain the different elements of a system.

5

(D) What is the role of system analyst ? Explain.

5

**EITHER**

2. (A) Explain the terms :

(i) Decision tree

(ii) Decision table, with suitable example.

5

(B) List six important principles of good form design.

5

**OR**

(C) What is DFD ? Explain with suitable example.

5

(D) What are the different categories of output ? Explain.

5

**EITHER**

3. (A) What is Conversion ? Explain any two conversion methods in brief.

5

(B) What do you mean by static and dynamic testing ? Explain.

5

**OR**

(C) Write a note on :

(i) System Testing

(ii) Test Acceptance

5

(D) Discuss the different change strategies.

5

**EITHER**

4. (A) Explain Gantt chart and PERT chart with suitable example. 5  
(B) What is software maintenance ? Give characteristics of software maintenance. 5

**OR**

- (C) Discuss the necessity of software configuration management. 5  
(D) Explain Work Breakdown structure and activity network model. 5
5. (A) Differentiate formal and informal information system.  
(B) Write a note on output design.  
(C) What is change agent ? What role does a change agent play in system development ?  
(D) Explain the metrics for Project Size Estimation.  $2\frac{1}{2} \times 4$