

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