Second Semester Bachelor of Science (B. Sc.) Examination

COMPUTER SCIENCE

(System Analysis and Design)

Time : Three Hours] [Max. Marks : 50

N.B. : (1) All questions are compulsory and carry equal marks.
(2) Draw neat labelled diagram wherever necessary.

EITHER

1. (a) What are different components of a computerized system ? Discuss each component. 5

(b) What are different data collection techniques ? Explain any two. 5

OR

(c) Draw System Development Life Cycle (SDLC) diagram. Explain different phases of SDLC in brief. 5

(d) What is feasibility study? Discuss technological and organizational feasibility. 5

EITHER

2. (a) What is DFD ? List various symbols used in drawing DFD with their meaning. Give one example of it. 5

(b) Write principles of code design. List various types of codes. Explain any two of them. 5

OR

(c) Explain Decision Table with suitable example. 5

(d) Write principles of output design. 5

EITHER

3. (a) What training options does an organization have? Explain any two in brief. 5

(b) What is conversion ? Discuss following conversion methods :—

(i) Cold turkey

(ii) Parallel. 5

OR

(c) Explain system evaluation in detail. 5

(d) What is testing ?

Explain the different levels of testing. 5

EITHER

4. (a) What is software maintenance ? Give characteristics of software maintenance. 5

(b) Explain risk management in detail. 5

OR

(c) What is project scheduling ? Explain PERT chart in brief. 5

(d) Discuss basic issues related to software reuse. 5

5. Answer any **ten** :—

(a) Define open system and close system.

(b) Give any two benefits of prototyping.

(c) Define subsystem.

(d) What is structured English ?

(e) What is form ?

(f) Give one example of open–ended question.

(g) Give need of Test evaluation.

(h) List elements that must be checked during testing.

(i) Give advantages of modular conversion method.

(j) List any two essential activities of project planning.

(k) Give full form of CPM.

(l) What is ISO 9000 ? 10