

KNT/KW/16/5253

Bachelor of Computer Application (B.C.A.) Semester—II (C.B.S.) Examination**SYSTEM ANALYSIS AND DESIGN****Paper—II**

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 different components of a computerized information system ? Discuss each component. 5

(b) Explain following data collection techniques :

- (i) Observation (ii) Document search. 5

OR

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

(d) What is feasibility study ? Discuss economical and financial 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 tree with suitable example. 5

(d) Write short notes on following :

- (i) Input validation (ii) Control of output. 5

EITHER

3. (a) What is conversion ? Discuss following conversion methods : 5
(i) Pilot (ii) Sequential.

(b) Why is testing necessary ? Explain the different levels of testing. 5

OR

(c) What training methods can an organization use ? List and explain. 5

(d) Explain system evaluation. 5

EITHER

4. (a) List the major responsibilities of a software project manager. 5

(b) Explain risk management in detail. 5

OR

(c) Explain work breakdown structure and activity network model. 5

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

5. (a) What is prototyping ? Write benefits of prototyping. 2½

(b) List different categories of output. 2½

(c) Write short note on implementation of a new system. 2½

(d) What is software maintenance ? Give characteristics of software maintenance. 2½