

KNT/KW/16/5101

Bachelor of Science (B.Sc.) Semester–II (C.B.S.) Examination

COMPUTER SCIENCE

(System Analysis and Design)

Compulsory Paper–2

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 the different components of the information system ? Briefly give its importance. 5
- (b) What is questionnaire ? Explain different types of questions with example to be used for gathering the information. 5

OR

- (c) Explain organizational and technological feasibility. 5
- (d) What role does system analyst play in information system development ? 5

EITHER

2. (a) What are the different symbols used to draw Data Flow Diagrams (DFD) ? Give its meaning. 5
- (b) Write short note on output design. 5

OR

- (c) Give the importance of code system and discuss principles of code design. 5
- (d) Why is input validation important ? Explain different types of validations. 5

EITHER

3. (a) Explain the following conversion methods :
 - (i) Cold Turkey method
 - (ii) Modular method. 5
- (b) Why is training important to employee before implementing an information system in an organization ? Explain training methods in brief. 5

OR

- (c) What is testing ? List and explain different levels of testing. 5
- (d) What factors are considered in system evaluation ? State its importance. 5

EITHER

- 4. (a) What do you mean by project planning and project size estimation ? Explain. 5
- (b) Explain project risk, business risk and technical risk. 5

OR

- (c) Explain the following :
 - (i) Software reliability
 - (ii) Software quality. 5
- (d) In information system what can be reused ? What are the basic issues with reuse ? 5
- 5. (a) Explain the subsystem with suitable example. 2½
- (b) List principles of form design. 2½
- (c) What is system maintenance ? Explain. 2½
- (d) Give full form of :
 - (i) CPM
 - (ii) PERT
 - (iii) WBS. 2½