

**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 labeled diagram wherever necessary.

**EITHER**

1. (a) Why is the development of an information system a cyclic process ? Explain steps of SDLC. 5
- (b) What is Prototyping ? Give two examples when use of prototyping. 5

**OR**

- (c) Is it sufficient to concentrate solely on development costs in feasibility study ? If no, what other considerations should be taken into account ? 5
- (d) What important factors are needed to be considered while deciding a candidate system ? Explain. 5

**EITHER**

2. (a) What is System Planning ? Explain how it helps in system development. 5
- (b) Explain guidelines for questionnaire formulation. Write questionnaire to be sent to end-users of a computer system to determine their level of satisfaction with the output. 5

**OR**

- (c) What are the conventions for writing structured English ? 5
- (d) What are the factors for Designing System ? Explain human factor consideration while designing a system. Explain system tolerance with example. 5

**EITHER**

3. (a) Explain why testing is necessary. Explain Test execution. 5  
(b) List conversion methods and explain any two. 5

**OR**

- (c) List Training Methods. Explain any two. 5  
(d) Write short note on Change Strategies. 5

**EITHER**

4. (a) Write a short note on reliability growth model. 5  
(b) What items associated with software development can be reused ? 5

**OR**

- (c) How Gantt charts are used in software project management ? Explain giving suitable example. 5  
(d) Explain various activities carried out in project planning. 5

5. Attempt **ALL** :

- (a) Draw (SDLC) System Development Life Cycle. 2½  
(b) State common causes of invalid data and error. 2½  
(c) Explain how testing responsibility lies on both system personnel and end users. 2½  
(d) Write key attributes of software quality. 2½