

A  
(20623)

Printed Pages : 3

Roll No. ....

B.Sc.(Com. Sci.)- VI Sem

**NP-3611**

**B.Sc. (Com. Science) Examination, June-2023**  
**SYSTEM ANALYSIS AND DESIGN**

**(BCS-601)**

*Time : 3 Hours]*

*[Maximum Marks : 75*

**Note :** Attempt questions from *all* the sections as per instructions.

**Section-A**

**(Very Short Answer Questions)**

**Note :** Attempt *all* the five questions. Each question carries 3 marks.

1. What do you mean by User Interface? Give essential features of an effective User Interface.
2. Differentiate between Data Flow Diagram and E-R Diagram.
3. Give three characteristics of Incremental model.
4. Establish the significance of e-commerce in present scenario.
5. Give the key objectives of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> normal forms.

NP-3611

[P.T.O.]

(2)

**Section-B**

**(Short Answer Questions)**

**Note :** Attempt any *two* questions out of the following three questions. Each question carries 7½ marks.

6. What are the essential steps in a good software System development? Explain the structured approach for software system development.
7. Where from a system analyst gather the information regarding systems requirements? Explain.
8. Explain Activity diagrams, Component diagrams and Deployment diagrams.

**Section-C**

**(Long Answer Questions)**

**Note :** Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

9. How is feasibility study crucial in overall development of a new system? Discuss various feasibility studies to be performed in a successful system development.

NP-3611

(3)

10. What are the methods of representing process logic in system development? Discuss decision table and decision trees in detail.
11. Describe the Spiral model for software development mentioning its pros and cons.
12. Discuss Porter's Value Chain Model.
13. Write short notes on any *two* of following :
  - (i) Role of System Analyst in system development
  - (ii) Data Dictionary
  - (iii) Cost/Benefit Analysis