

NP-3611 (CV)
B.Sc. (Com. Science) VIth Semester
Examination, June-2020
SYSTEM ANALYSIS AND DESIGN

(BCS-601)

Time : Two Hours / [Maximum Marks : 75

Note : Attempt **all** Sections as per instructions.

Section - A

(Very Short Answer Type Questions)

Note : Attempt any **four** questions. Each question carries 3.75 marks.

$4 \times 3.75 = 15$

1. What is the meaning of 'Cost/Benefit analysis' of a project?
2. What is Unified Modeling Language? What is its significance in system analysis and design?

P.T.O.

3. Give the characteristic(s) of Spiral model.
4. Elaborate the meaning of 'Electronic Data Interchange'.
5. What do you mean by physical and logical DFDs?

Section - B

(Short Answer Questions)

Note : Attempt any **one** question out of the following **three** questions. Each question carries 15 marks. Short answer is required. $1 \times 15 = 15$

6. Explain SDLC (Software Development Life Cycle).
7. Discuss the process of investigating the system requirements. How to model system requirements.
8. Discuss any **two** of the following :
 - (i) Data Dictionary
 - (ii) Structured English
 - (iii) Decision Tables

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Section - C

(Detailed Answer Questions)

Note : Attempt any **two** questions out of the following **five** questions. Each question carries 22.5 marks. Answer is required in detail. $2 \times 22.5 = 45$

9. Discuss the various techniques of data gathering.
10. What are the benefits of using RDBMS? What are the objectives of First and Second normal forms. Explain with example(s)?
11. Discuss any **one** of the following in detail:
 - (i) ER diagram and its role in data modeling
 - (ii) E-Commerce : Scope and Challenges
12. Explain the Prototyping model.
13. Write short notes on any **two** of following:
 - (i) Case diagrams
 - (ii) E-market
 - (iii) Feasibility study and its importance