

Roll No.

97668

BCA 2nd Semester (Full & Re-appear)

Examination – May, 2024

STRUCTURED SYSTEM ANALYSIS AND DESIGN

Paper : BCA-109

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all. Question Number 1 will be *compulsory*. In addition to compulsory question, student will have to attempt *four* more questions selecting *one* question from each Unit.

1. Explain the following in detail :

- (a) Uses of information gathering tools
- (b) Uses of Flow charts

- (c) System evaluation
- (d) Decision tree
- (e) Role of system analyst
- (f) Feasibility reports
- (g) System documentation
- (h) Decision tree

UNIT – 1

- 2.** (a) Define System ? Explain its types and characteristics in detail.
- (b) Discuss the various planning alternatives used in system development life cycle (SDLC).
- 3.** Explain the following in detail :
- (a) Sources of project requests and initial investigation
 - (b) Fact analysis and Determination of feasibility

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UNIT – II

4. (a) What is systems feasibility ? Explain the objective and steps in feasibility analysis.
- (b) What are DFDs ? What are the considerations involved in developing DFD ? Illustrate through a suitable example of your choice.
5. (a) What is cost and Benefit Analysis ? Explain the procedure of cost/ benefit determination.
- (b) What is System analysis ? Explain in detail the tools of system analysis.

UNIT – III

6. (a) What activities make up system design ? How does system design simplify implementation ? Explain.
- (b) What is form design ? What are the requirements of form design ? Also explain the types of forms.

7. (a) What is Output design ? Explain the objectives of Output design.
- (b) What do you mean by Design methodologies ? Explain the Form-Driven methodology in detail.

UNIT – IV

8. (a) What is system testing ? What are the objectives of testing ? What types of test data are used in system testing ? Explain in detail.
- (b) What is System implementation ? Explain the process of implementation in detail.
9. (a) What is Quality Assurance ? Explain in detail the quality assurance goals in system life cycle.
- (b) What is System maintenance ? Explain its types in detail.