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Roll No.

ID—8039

B.C.A. EXAMINATION, 2022

(Second Semester)

STRUCTURED SYSTEM ANALYSIS AND
DESIGN

Code : BCA-109

Time : 3 Hours

Maximum Marks : 80

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

Note : Attempt *Five* questions in all. Question No. 1 contains eight short answer type questions of 2 marks each and is compulsory. Attempt *four* more questions by selecting *one* question from each Unit. All questions carry equal marks.

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P.T.O.

1.✓ Explain the following in detail :

- (a)✓ Define open and closed systems.
- (b)✓ What are the qualities of system analyst ?
- (c)✓ Define technical and economical feasibility.
- (d)✓ Flow-charts.
- (e)✓ Decision tree.
- (f)✓ Oral presentation.
- (g)✓ System documentation.
- (h)✓ Gantt Charts.

Unit I

- 2.✓ (a)✓ What is information system ? Describe the different categories of information system.
 - (b)✓ What is information gathering ? Explain the information gathering tools in detail.
3. (a) Discuss the various planning alternatives used in System development life-cycle (SDLC).
- (b) Explain the role of system analyst in detail.

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Unit II

4. (a) What are DFDs ? What are the considerations involved in development of DFDs ? Explain with any suitable example.
- (b) What is system analysis ? Explain various tools used in system analysis.
5. (a) What is cost and benefit analysis ? Explain the procedure of cost/benefit determination.
- (b) Define the objectives of feasibility study. What steps are required in feasibility analysis ?

Unit III:

6. (a) List and explain various parts of system design process with the help of suitable diagram.
- (b) What is Modularization ? Also explain the concept of coupling and cohesion.

7. (a) What are the various input devices for feeding the raw data into the system ? Explain various approaches for online data entry.
- (b) What do you mean by design methodologies ? Explain the form-driven methodology in detail.

Unit IV

8. (a) What is quality assurance ? Explain the quality assurance goals in system development life-cycle.
- (b) What is system implementation ? Explain the process of implementation in detail.
9. (a) What is system maintenance ? Explain its various types in detail.
- (b) What do you mean by system testing ? What types of test data are in system testing ? Explain.