PAPER ID—10595

B.C.A. EXAMINATION, 2024

(Second Semester)

STRUCTURED SYSTEMS ANALYSIS AND DESIGN

Code: RCA-109

Time: 3 Hours

(M24-3-08/7) T-10595

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, selecting one question from each Section. Q. No. 1 is compulsory. All questions carry equal marks.

P.T.O.

- Define open and closed systems.
 - (b) What are the qualities of system analyst?
 - (a) Define technical and economical feasibility.
 - (d) What is flow chart ? Explain its advantages and disadvantages.
 - (a) Explain various activities during system design.
 - (f) Distinguish between coupling and cohesion.
 - (g) What is structured walk thoughts?
 - (h) Differentiate between verification and validation testing.

Section A

 (a) What is information system? Describe the different categories of information system.

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- (b) Define system planning. Explain the various steps that should be taken in planning a project. 8+8
- Explain the steps and activities in the design phase of System Development Life-Cycle (SDLC).
 - (b) Distinguish between initial investigation and feasibility study. In what way they are related \$\frac{1}{2}\rightarrow{1}{2} = \frac{1}{2}\rightarrow{1}{2} = \frac{1}{2}\rightarrow{1}

Section B

- A. Write short notes on the following: 8+8
 - (a) Decision table
 - (b) Data flow diagram
 - (e) Decision tree.
- 5. (a) Define the objectives of feasibility study.
 What steps are required in feasibility analysis?

(b) What is the purpose of cost/benefit analysis? Explain various steps in cost/ benefit analysis. 8+8

Section C

- (a) List and explain various parts of system design process with the help of diagram.
 - (b) What are the aims of structured design?Explain coupling and cohesion for structural design.
- 7. (a) What are the various input devices for feeding the raw data into the system?
 Explain various approaches for online data entry.
 - (b) Explain the various requirements of form design. List the three guidelines for good form design.

 8+8

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P.T.O.

Section D

- (a) What are the objectives of testing?
 Explain unit testing and integration testing.
 - (b) Define the term quality assurance. Discuss its importance in system design. 8+8
- 9. (a) What is the importance of studying the maintenance of the system? Explain different types of maintenance.
 - (b) What is the need of standard software documentation ? Explain three documentation standards briefly. 8+8