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## May 2023 BCA IInd Semester

Structured System Analysis and Design (BCA-17-109)

Time: 3 Hours]

Max. Marks: 75

## Instructions:

- I. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

## PART-A

- 1. (a) Differentiate between technical feasibility & operational feasibility of a project. (1.5)
  - (b) List any two common errors that are made while drawing data flow diagrams. (1.5)
  - (c) Why do we need to design software architecture?

(1.5)

- (d) What is the purpose of system testing? (1.5)
  - (e) What is the significance of data dictionary? (1.5)

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(1.5)

- $\mathfrak{S}$ What is decision tree?
- **(8)** What is fact analysis?
- $\Xi$ What do you mean by prototyping? What is its need? (1.5)
- What is structured walkthrough?

 $\odot$ 

(1.5)

(1.5)

 $\odot$ What are the contents of a test plan?

(1.5)

## PART-B

- 2 (a) system. What is system? Explain characteristics and types of 9
- **(3)** detail. Explain System development life-cycle (SDLC) 9 Ħ,
- w (a) for the system development Discuss various techniques for gathering requirements What are the benefits of performing feasibility study? 9
- 9 Write an explanatory note on Gantts Charts 9
- (a) Draw a labelled DFD for Library Management System. 9
- 9 design. List and explain at least six considerations for the input 9
- in (a) What are the different methodologies of system design? What do you understand by coupling and cohesion?

- 9 (a) describe the factors that affect the quality of a system. importance in system design. Also list and briefly Define the term Quality Assurance. Discuss its 9
- 9 Define System maintenance. Explain its types. 9
- 7 **a** cost-benefit analysis with an example. What do you mean by Cost-benefit analysis, Illustrate 9
- **(** brief. What are various types of system testing? Explain in 9