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PUBV(S-III) — BCA (CC - 7)

## 2024

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Groups as directed.

(SSAD)

Group - 🕹

(Objective Type Questions)

- [A] Select the most suitable answer of the following: 1×5 = 5
  - (a) The system have been classified in different ways:
    - (i) Physical or abstract
    - (ii) Open or closed
    - (iii) Man-Made Information system

(iv) All of these

(Turn over)

NO - 43/3

(b)	The symbol is used in a flowchart to
	represent a step that gets information
	from user:
_	(i) Input / output
	(ii) Process
	(iii) Selection
	(iv) None of these
(c)	An open rectangle :
	(i) Define a source or destination of system data
	(ii) Identifies the Data flow
	(iii) Represent a process that transform
	incoming Data flow
	(iv) Is a data store-data at rest
(d)	The Primary tool used in structured
	design is a :
	(i) Structure chart
*	(ii) Data flow chart
	(iii) Program flow chart
	(iv) Module
(e)	The Data Flow Diagram (DFD) show:
	(i) The flow of Data
	(ii) The process
	(iii) Storage
	(iv) All of these

[B] Fill in the blanks of the following: (a) BCNF stands for Royle-Gul Normal Form (b) HIPO stands for Hisachy Input Pockels (c) 3NF stands for 3 od Not mal Form (d) An open rectangle represents Pota-Store (e) Decision tree uses Sequential Deaston Group - B (Short-answer Type Questions) Answer any four questions of the following:  $5 \times 4 = 20$ (a) Describe the characteristics of the system. (b) What is DFD? Explain the tools of DFD. Differentiate between System Analysis and System Design. (d) Explain the main four feasibility study in Tech, Delegal, operation (e) Explain the Decision Tree and Decision Table. Write shorts notes on any two of the following: **(f)** System Testing (ii) MIS (iii) Structural English (iv) ER Diagram

NO-43/3 (3) (Turn over)

## Group – C (Long-answer Type Questions)

- 3. Answer any **four** questions of the following :  $10 \times 4 = 40$ 
  - (a) What is SDLC? Explain the stages of SDLC with diagram.
  - (b) What is Normalization? Explain the 1NF, 2NF AND 3NF.
  - (c) Construct an entity-relationship diagram for Railway Reservation System.
  - (d) Explain the type of Information System in SSAD.
  - (e) Describe the role and responsibilities of System Analyst.
  - (f) Explain any two of the following:
    - (i) Context Levelled DFD
    - (ii) Logical and Physical Design
    - (iii) DSS
    - (iv) Data Dictionary