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**Voc(S-III) — BCA  
(CC – 7)**

**2023**

*Time : 3 hours*

*Full Marks : 70*

*Pass Marks : 32*

*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.*

**Group – A**

**(Objective Type Questions)**

1. [A] Choose the correct answer of the following :

**1×5 = 5**

- (a) The Structure Analyse of the following :

- (i) Decision tree
- (ii) Decision Table
- (iii) Structural English
- (iv) All of these

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**(Turn over)**

(b) DFD represent the following :

- ✓ (i) Graphical description of Data
- (ii) Algorithm
- (iii) Flow chart
- (iv) None of these

(c) INF represent :

- (i) Grouping of the data
- (ii) Redundancy control
- (iii) Transitive dependencies
- (iv) None of these

(d) System Implementation phase entails :

- (i) System Check outs
- (ii) Pilot run
- (iii) Parallel runs
- (iv) All of these

(e) Problem Analysis is done during :

- (i) System Design
- (ii) System Analysis
- (iii) System Test ✓
- (iv) All of these

[B] Fill in the blanks of the following :  $1 \times 5 = 5$

- (a) In a DFD external entities are represented by \_\_\_\_\_
- (b) A Pseudo code is \_\_\_\_\_
- (c) A feasibility study \_\_\_\_\_
- (d) The first step in System Development Life Cycle is \_\_\_\_\_
- (e) BGNF stands for \_\_\_\_\_

**Group – B**

**(Short-answer Type Questions)**

2. Answer any four questions of the following :

$5 \times 4 = 20$

- (a) Explain the Elements of System.
- (b) What is Data Dictionary ? Explain the symbols of Data Dictionary.
- (c) Explain the SSAD suitable example.
- (d) Describe the ER Diagram with example.
- (e) Explain the function of System Analyst.
- (f) Explain the following :
  - (i) DSS

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( 3 )

( Turn over )

- (ii) CAD (Context Analysis Diagram)
- (iii) Computer Based Information System

### **Group – C**

#### **(Long-answer Type Questions)**

3. Answer any **four** questions of the following :

**10×4 = 40**

- (a) What is feasibility study ? Explain the type of feasibility study.
- (b) Explain the 1NF, 2NF and 3NF with suitable example.
- (c) What is Structural Analysis ? Explain the types of Structural Analysis.
- (d) List the different phases in SDLC.
- (e) Explain the logical and physical design in SSAD.
- (f) Explain the following :
  - (i) System Testing
  - (ii) MIS
  - (iii) Cost/Benefit Analysis
  - (iv) DFD



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( 4 )

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