

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 :

$1 \times 5 = 5$

(a) The Structure Analyse of the following :

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

(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 : 1×5 = 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 :

5×4 = 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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- (ii) CAD (Context Analysis Diagram)
 - (iii) Computer Based Information System

Group – C

(Long-answer Type Questions)

3. Answer any four questions of the following :

$$10 \times 4 = 40$$

- (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