2010

Time : 3 hours

Full Marks : 80

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 both the Groups as directed.

Group – A

(Compulsory)

1. Choose the correct answer of the following:

   $2 \times 10 = 20$

   (a) Errors occur more often when:

   (i) Data is entered by user

   (ii) Data is entered by operators

   (iii) When data is handwritten by users and entered by an operator

   (iv) The key board design is bad

SB – 24/2  

(Turn over)
(b) A test in which modules are tested independently is known as:
   (i) Unit Testing
   (ii) Integration Testing
   (iii) Maintenance
   (iv) Overview

(c) By metadata we mean:
   (i) Very large data
   (ii) Data about data
   (iii) Data dictionary
   (iv) Meaningful data

(d) DFD (Data Flow Diagram) shows:
   (i) Data Flow
   (ii) Control Flow
   (iii) Information access
   (iv) Processing

(e) Branches in decision tree represent:
   (i) Condition
   (ii) Situation
   (iii) Analysis
   (iv) Design

SB – 24/2 \hspace{1cm} (2) \hspace{1cm} Contd.
(f) A data dictionary has consolidated list of data contained in:

(i) Data flows
(ii) Data stores
(iii) Data outputs
(iv) Processes

(g) System test plan is specified:

(i) When the final specifications are drawn up
(ii) During feasibility study
(iii) During the requirements specifications stage
(iv) During system study stage

(h) Initial requirements specification is:

(i) Not changed till the end of the project
(ii) Continuously changed during project implementation
(iii) Only a rough indication of the requirement
(iv) Changed and finalized after feasibility study

SB – 24/2 ( 3 ) ( Turn over )
(i) Requirement specification is carried out:
   (i) After requirements are determined
   (ii) Before requirements are determined
   (iii) Simultaneously with requirements determination
   (iv) Independent of requirements determination

(j) Which step of SDLC performs cost / benefit analysis?
   (i) Feasibility Study
   (ii) Analysis
   (iii) Design
   (iv) None of the above

Group – B

Answer any four questions: 15×4 = 60

2. Describe the type of system. What are the characteristics of a system? What are the elements of system? Explain in detail.

3. Discuss the concept of MIS and DSS. How they are related and different?

SB – 24/2 (4) Contd.
4. What do you mean by SDLC? Describe the different phases of SDLC.

5. Define the various tools of structured analysis. How is DFD different from flow chart?


7. Discuss Sequential and Index—Sequential file organization. Also, explain advantages and disadvantages of both file organizations.

8. Write short notes on any five of the following:
   (a) Decision Tree
   (b) Decision Table
   (c) Structured English
   (d) Modular Coupling
   (e) Quality Assurance
   (f) Data Dictionary

9. What do you mean by feasibility study? Define various types of feasibility study.


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SB – 24/2 (275)  (5)  BCA(II) — COM /II /
10 /X /H