SARDAR PATEL UNIVERSITY

F.Y.B.C.A. 2ⁿᵈSEM CBCS (Old course NC) Examination April-2022

US02CBCA02 || System Analysis and Design

Date: 28/04/2022

Time: 12:00pm to 02:00pm   Maximum Marks: 70

Q.1   Answer the following questions.   [10]

1 _____ system is an example of Natural system.

   (a) solar   (b)   information

   (c) business   (d)   defense

2 The example of conceptual system is _____

   (a) philosophy   (b)   solar

   (c) water   (d)   computer

3 An _____ system is subsystem of any business system.

   (a) water   (b) information

   (c) computer   (d) defense

4 The third step of SDLC is _____

   (a) Problem identification   (b) System requirement analysis

   (c) System evaluation   (d) System study

5 Return on investment (ROI) = _____.

   (a) Net profit /total investment   (b) Total investment / Net earnings

   (c) Net earnings/total investment   (d) None of these

6 One of the example of recurring cost is _____.

   (a) feasibility study cost   (b) remodeling of computer room

   (c) Salary   (d) construction

7 [ ] Symbol is used for _____

   (a) Processes   (b) Data Stores

   (c) Data Flows   (d) External Entities

8 Which of the following is used in DFDs?

   (a) External Entities   (b) Processes

   (c) Entities   (d) All of above

9 _____ is managing the components of an IT system.

   (a) Information repository   (b)   Analysis

   (c) System   (d) All of above

10 _____ is a tool box to assist in automating system and software development.

   (a) Centralized information repository (b) Code Generator

   (c) Interface Generators   (d) Management Tool

(P.T.O.)

Q.2 **Fill in the blanks and True/False.** [08]

1 Output is defined as the result of an operation. (True / False)

2 The inter connection & interactions between the subsystem are termed as _____ .

3 Operational evaluation considers feasibility study cost (True / False)

4 _____ means reports contain misleading information.

5 The names of data stores ,sources and destinations are written in uppercase. (True / False)

6 The DFDs that shows "What is going on" is known as _____ DFDs.

7 CASE is the acronym of Computer Associated System Engineering (True / False)

8 _____ Tool automate the preparation of computer software.

Q.3 **Explain following in brief. (Attempt any Ten)** [20]

1 List types of system.

2 List characteristics of system.

3 Give three examples of systems with its elements.

4 List system design specification.

5 Give examples of onetime cost and recurring cost.

6 List implementation activities.

7 List types of fact gathering techniques with its necessity for collecting information.

8 Write in brief about system flow chart

9 List any two difference between physical and logical DFDs.

10 Explain Diagramming and Management Tools

11 List limitations of CASE Tools.

12 What do you mean by CASE Tools?

Q.4 **Explain the following in detail. (Attempt any Four)** [32]

1 Describe the general model of a system and model of business system with diagrams.

2 What is SDLC? List and explain the steps in 2 or 3 lines.

3 List different methodology of SSADM. Explain any three of them.

4 What do mean by Data Validation? Discuss categories of Validation Checks in detail.

5 Explain design principles and available types of output.

6 What is Record Review? What kind of content consists by Records and how it will be useful?

7 Define DFD , Symbols used in DFDs and Rules to be followed in DFD construction.

8 List and Explain Case Components

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