[140]

SARDAR PATEL UNIVERSITY
S.Y.B.C.A (3rd Semester) (CBCS) (REGULAR) Examination
US03CBCA54: System Analysis and Design
DATE: 14th November 2022, Monday
TIME: 02:00 P.M to 05:00 P.M

Total Marks: 70

Q:1 **Multiple choice questions.** **[10]**

1. _____ is defined as the startup component on which the system operates.
   a) output   b) goal   c) input   d) process

2. Economic forecasting is an example of_____system.
   a)Probabilistic   b) Deterministic   c) machine   d) closed

3. _____is the way a system reacts to its environment.
   a)Structure   b) Life Cycle   c) Goal   d) Behaviour

4. A_____is undertaken to determine the possibility of either improving the existing system or developing a completely new system.
   a)Feasibility study   b) cost benefit analysis   c) system study   d) None

5. The last step of SDLC is_____.
   a)Problem identification b) System evaluation c) Feasibility study   d)System study

6. _____ documentation describes the overall system design.
   a)Design   b) Program   c) Training   d) User Interface

7. The names of data stores, sources and destinations are written in_____letters.
   a)Upper Case   b)Lower Case   c)Title Case   d) None of these

8. _____method is may used as a supplement of Interview technique.
   a)Interviewing   b) Questionnaires   c) Record inspection   d) Observation

9. Completion of the Prototyping Process signals the_____of the next activity.
   a)Completion b) Beginning   c) Redevelop   d) Implementation

10. The number of required iteration is_____to be determine before Prototype finally accepted by the customer.
    a)Certain   b) Uncertain   c) Bounded   d) Unbounded

①

[P.T.O]

Q:2   **Answer the following questions. (Any ten)**   **[20]**

1. Draw the General model of the system.
2. Differentiate between open system and closed system.
3. What is System? Give example of the system.
4. What do you mean by Structured Walk Through? List its types.
5. List Tangible and Intangible Benefits.
6. List steps of SSADM.
7. List types of Output.
8. When Questionnaires are useful?
9. List types of fact gathering techniques with its necessity for collecting information.
10. What are Physical DFDs and Logical DFDs?
11. List thumb rules to be followed while constructing DFDs.
12. Draw and define the symbols used in DFDs.

Q:3   **A.**   Discuss the characteristics of system in detail.   **[06]**
     B.   Discuss knowledge and qualities expected from a good system analyst.   **[04]**
               OR
     A.   Write a detail note on Role of System Analyst.   **[06]**
     B.   List the types of systems. Discuss any two of them in detail with example.   **[04]**

Q:4   **A.**   Explain five components of system implementation.   **[05]**
     B.   Discuss feasibility study with its need.   **[05]**
               OR
     A.   What are the reasons to adapt SSADM as SDLC?   **[05]**
     B.   Write any two steps followed by SDLC in detail.   **[05]**

Q:5   **A.**   What is Data Capture? Explain basic steps for Data capturing.   **[05]**
     B.   Write a note on Field Checks Validations.   **[05]**
               OR
     A.   Write a note on Interview Techniques.   **[05]**
     B.   Write a note on Transaction Checks Validations.   **[05]**

Q:6   **A.**   What do you mean by DFDs? Discuss merits and demerits of DFDs.   **[05]**
     B.   Draw Prototype Development Model.   **[05]**
               OR
     A.   Discuss merits and demerits of prototyping in detail.   **[05]**
     B.   Draw Context Level, 0 Level DFDs for Insurance Management System.   **[05]**

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