

SEAT No. _____

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SARDAR PATEL UNIVERSITY
S.Y.B.Sc.CA & IT 2nd SEMESTER Examination -2022
US02CHT53 || System Analysis and Design

Date: 27-04-2022

Time: 12:00 PM to 2:00 PM

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. _____ is defined as the startup component on which the system operates.
a) output b) goal c) input d) process
3. Economic forecasting is an example of _____ system
a) Probabilistic b) Deterministic c) machine d) closed
4. SSADM does not includes _____.
a) System Survey b) Structured Design c) Maintenance d) System Analysis
5. _____ involves the purchase of hardware and software.
a) Programming b) Testing c) System Acquisition d) Conversion
6. In _____ maintenance efforts will be constantly going on to perfect the system.
a) Adaptive b) Corrective c) Perfective d) None
7. _____ is not the fact finding technique.
a) interviewing b) Questionnaires c) Record inspection d) Data Input
8. _____ Technique is useful for collect numerical data.
a) Interviewing b) Questionnaires c) Record inspection d) Data input
9. _____ is a tool box to assist in automating system and software development.
a) CASE b) System c) Design d) Analysis
10. _____ is collect and store data.
a) Information repository b) System c) Both a and b d) Analysis

- Q:2** **Fill in the blanks and True/False** [08]
- 1 _____ is the way a system reacts to its environment.
 - 2 _____ is considered as an output of the Structure Analysis.
 - 3 Data Flow Diagram is also known as _____ Diagram.
 - 4 _____ that the program or software package is current and conforms to standards.
 - 5 The third step of SDLC is Problem identification.(True/False)
 - 6 Hardware cost is one of the examples of One time of Cost. (True/False)
 - 7 The DFDs that shows "How the process is going on" is known as physical DFDs.
(True/False)
 - 8 SWIG can generate interfaces for almost any data construct. (True/False)

- Q:3** **Explain following in brief.(Attempt any Ten)** [20]
- 1 List characteristics of system.
 - 2 Draw the General model of the system.
 - 3 List types of system.
 - 4 List tools used by Structured Analysis other than DFDs
 - 5 List basic need to conduct Walkthrough
 - 6 Explain Survey in SSADM
 - 7 List types of fact gathering techniques with its necessity for collecting information.
 - 8 List thumb rules to be followed while constructing DFDs.
 - 9 What is use of flowchart?
 - 10 List out component of case.
 - 11 What is diagramming tool?
 - 12 List out level of assurance.

- Q:4** **Explain the following in detail.(Attempt any Four)** [32]
- 1 Explain the elements of system.
 - 2 Write a detail note on Role of System Analyst.
 - 3 What is Structured Analysis? Discuss sub processes of Structured Analysis.
 - 4 What do mean by Data Validation? Discuss categories of Validation Checks in detail.
 - 5 What do you mean by DFDs? Discuss merits and demerits of DFDs
 - 6 Discuss Questionnaires with its categories and use.
 - 7 What is case study explain components of case.
 - 8 How many type of assurance level explain in detail.

— X —

(2)