



SEAT No. _____

SARDAR PATEL UNIVERSITY

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F.Y.B.Sc. (CA & IT) 2nd SEM CBCS (NC) Examination April-2022

US02CII23 || System Analysis and Design

Date: 27/04/2022 Wednesday

Time: 12:00pm to 02:00pm

Maximum Marks: 70

Q.1 Answer the following questions.

[10]

- 1 The inter connection & interactions between the subsystem are termed as _____.
(a) interface (b) subsystem
(c) boundary (d) blackbox
- 2 _____ is defined as the result of an operation.
(a) output (b) goal
(c) input (d) process
- 3 _____ means reports contain misleading information.
(a) Problem of reliability (b) Problem of validity
(c) Problem of timeliness (d) Problem of capacity
- 4 SSADM does not includes _____.
(a) System Survey (b) System Analysis
(c) Maintenance (d) Structured Design
- 5 In _____ maintenance errors or bugs are rectified.
(a) Adaptive (b) Perfective
(c) Corrective (d) None of these
- 6 _____ is the process of getting data to the system in a machine sensible form.
(a) Data verification (b) Data validation
(c) Data collection (d) Data Test
- 7 Through _____ technique one can bring missed facts to the surface to improve the existing procedures.
(a) Interviewing (b) Questionnaires
(c) Record inspection (d) Observation
- 8 Which of the following is used in DFDs?
(a) External Entities (b) Processes
(c) Entities (d) All of above
- 9 _____ tool represent graphical form of diagram tool
(a) Diagram tool (b) Case tool
(c) Information tool (d) System tool
- 10 _____ is a CASE tool will not allow a data flow to go unnamed or for a child data flow.
(a) Interface Generator (b) Diagram tool
(c) Information repository (d) All of above

Q.2 Fill in the blanks and True/False.

[08]

- 1 Return on investment (ROI) formula is $\text{Net earnings}/\text{total investment}$ (True / False)
- 2 The features which defines a system from the environment is known as _____.
- 3 System Analysis is an organized step by step tracing through of a design by a group of people. (True / False)
- 4 _____ is considered as an output of the Structure Analysis.
- 5 The DFDs that shows "What is going on" is known as Logical DFDs. (True / False)
- 6 The process represented in DFD by a circle is also known as _____.
- 7 System is a tool box to assist in automating system and software development. (True / False)
- 8 _____ is collect and store data.

Q.3 Explain following in brief. (Attempt any Ten)

[20]

- 1 Define system.
- 2 Differentiate between conceptual and physical system.
- 3 What is technical feasibility?
- 4 Define Packaging. Also write down output of package specification.
- 5 What is Data Transmission?
- 6 Explain Configuring Hardware Study
- 7 Explain Data Flow Diagram and list its types.
- 8 What is use of flowchart?
- 9 Define: structured English, decision table.
- 10 What is diagramming tool?
- 11 What is code generator?
- 12 List out level of assurance.

Q.4 Explain the following in detail. (Attempt any Four)

[32]

- 1 What is SDLC? List and explain the steps in 2 or 3 lines.
- 2 Explain the role of System Analyst.
- 3 List different stages of SSADM. Explain any three.
- 4 Explain objectives of output and input design.
- 5 Explain thumb rules used to constructing DFDs also explain symbol for constructing DFDs.
- 6 List categories of Fact Gathering Techniques and Discuss any two of them in detail.
- 7 What is case study explain components of case.
- 8 How many type of assurance level explain in detail.

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