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SARDAR PATEL UNIVERSITY

BCA (Semester 3) Examination - 2022

Subject Code: US03CBCA27 || Subject Title: System Analysis and Design

Date: 14/11/2022 (Monday)

Time: 02.00 PM To 05.00 PM

Total: 70 Marks

Q.1 Multiple Choice Questions.

[10]

- _____ system is an example of Natural system.
[A]. Solar [B]. Information [C]. Business [D]. Defense
- System analysis represent logical model of the system through _____.
[A]. DFD [B]. Report [C]. Procedure [D]. Technical Speciation
- _____ system is a self contained
[A]. Open [B]. Closed [C]. Physical [D]. Conceptual
- _____ documentation contains instructions for normal operation.
[A]. Program [B]. Operation [C]. Training [D]. Design
- Structured Analysis does not use _____.
[A]. E R Diagram [B]. Structure Diagram [C]. Data Dictionary [D]. Decision Trees
- The processed data with specific purpose are called _____.
[A]. Data [B]. Information [C]. Picture [D]. System
- _____ is the techniques to collect information from an individual or from groups.
[A]. Inspection [B]. Observation [C]. Interviewing [D]. Questionnaires
- The names of data stores, sources and destinations are written in _____ letters.
[A]. Upper Case & Lower Case [B]. Title Case [C]. Lower Case [D]. Upper Case
- Prototype is a good choice to demonstrate _____ feasibility of the product.
[A]. Technical [B]. Operational [C]. Economical [D]. All of these
- Generally Context level DFD contain _____ process.
[A]. One [B]. Two [C]. Three [D]. Four

Q.2 Write Short Answers For Following Questions : [ANY 10]

[20]

- Draw the general model of the system.
- Give three examples of systems with its elements.
- What do you mean by system design?
- What is economic feasibility?
- List different types of documentation.
- What is structured analysis?
- Define: data & data collection
- List contents relates with the records
- Write objectives of output.
- Draw the context level diagram for college payroll system.
- Explain DFD and list its types.
- What is prototype?

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- Q.3** [A] List the types of systems. Discuss any two of them in detail with example. [05]
[B] Explain the elements of system. [05]
- OR**
- [A] Write a detail note on role of System Analyst. [05]
[B] List characteristics of System, explain any two in detail. [05]
- Q.4** [A] List different methodology of SSADM. Explain any two of them. [05]
[B] Discuss "system requirement analysis" in detail. [05]
- OR**
- [A] What is SDLC? Write two steps followed by SDLC in detail. [05]
[B] Discuss feasibility study with its need. [05]
- Q.5** [A] Write a note on observation techniques. [05]
[B] Discuss design principles of output. [05]
- OR**
- [A] Write a note on transaction checks validations. [05]
[B] Discuss questionnaires with its categories and use. [05]
- Q.6** [A] Discuss use, merits and demerits of DFDs. [05]
[B] Differentiate physical DFDs v/s logical DFDs. [05]
- OR**
- [A] Draw and discuss symbols used in DFDs and explain thumb rules used to constructing DFDs. [05]
[B] Discuss merits and demerits of prototyping in detail. [05]

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