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SARDAR PATEL UNIVERSITY
INFORMATION & TECHNOLOGY

S.Y.B.Sc.(Semester - III) Examination November – 2019

US03CINT21 : System Analysis And Design

Date: 22-11-2019, Friday

Time: 02-00 to 05-00 P.M.

Total Marks : 70

- Q.1 Multiple choice questions: [10]
- _____ is defined as the result of an operation.
A. output B. Goal C. input D. process
 - System analysis represent logical model of the system through _____
A. DFD B. Report
C. procedure D. Technical specification
 - _____ is the way a system reacts to its environment
A. Structure B. Life Cycle C. Goal D. Behavior
 - 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
 - SSADM does not includes _____
A. System Survey B. Structured Design
C. Maintenance D. System Analysis
 - Structured Analysis does not use _____
A. Data Dictionary B. Structured diagram
C. E R diagram D. decision Trees
 - _____ is a collection of data fundamentals to a system
A. Data Base B. Data Input C. Data Output D. Data Entry
 - Through _____ technique one can bring missed facts to the surface to improve the existing procedures.
A. Interviewing B. Questionnaires C. Record inspection D. Observation
 - From the following, _____ useful when totally novel system is proposed.
A. Prototype B. Flow Chart C. DFDs D. Procedure
 - 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)

(PTO)

- Q.2 Write answer in short (Any Ten) [20]
1. Differentiate between open system and closed system.
 2. Draw the General model of the system.
 3. Give two examples of systems with its elements.
 4. Discuss need of feasibility study.
 5. List System Design Specification
 6. What is structured Analysis?
 7. Briefly discuss objectives of Data Capture.
 8. List contents relates with the Records.
 9. List types of Output.
 10. List thumb rules to be followed while constructing DFDs.
 11. What is Prototype?
 12. Draw the Context level diagram for College Payroll System.
- Q.3 (a) Write a detail note on Role of System Analyst. [5]
- Q.3 (b) What is system? Explain the elements of system. [5]
- OR
- Q.3 (a) List the types of systems. Discuss any two of them in detail with example. [5]
- Q.3 (b) Differentiate System Analysis and System Design. [5]
- Q.4 (a) Write a short note on System Analysis considering SDLC [4]
- Q.4 (b) Discuss Structured Design [6]
- OR
- Q.4 (a) Write a short note on System Design considering SDLC [4]
- Q.4 (b) List different methodology of SSADM. Explain any one of them. [6]
- Q.5 (a) Write a note on Field Checks Validations. [5]
- Q.5 (b) Write a note on Interview Techniques [5]
- OR
- Q.5 (a) Write a note on Transaction Checks Validations. [5]
- Q.5 (b) Discuss Questionnaires with its categories and use. [5]
- Q.6 Draw Prototype Development Model and discuss steps of Prototype Process in detail. [10]
- OR
- Q.6 Define: Data Flow Diagram. Draw and discuss Symbols used in DFDs and explain thumb rules used to constructing DFDs. [10]