



Assignment On

Course Name: System Analysis and Design

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Answer to the question 100:2 * Advantages of structured analysis and structured Designan (SA/SD)

- O Clarity and simplicity: The SA/SD method emplayless breaking Down complex systems into smaller, more manageable components, which makes the system easier to underestand and manage.
- Detter communication: The SA/SD method provides a communication in language and framework for communication the Design of any a system, which can improve communication between stakeholdens and help exsure that the system meets their need and expectation.
- 3 Improved maintainabitely: The SA/SD method provides a clear, organization structure for a system, which can make it easien to maintain and upta update the system overtime
- @ Better Testability: The SA/DD methof provides a clean defination at the imputs and output of a system, which makes it easier to test the system and ensure that the makes it easier to test the system and ensure that

Answer to the question 1

Deflining the anchitecture, components, modules, Intentaces and date force a system satisfy specifich

Input Design: man information system input is the nawate that processed to produce output Downing to input Design The Developens must consider to the input Device such as pe, mice MICR, OMR, etc.

Therefore, the quality of system input determines the quality of system output.

- *it should sense specific purpose effectively such as neconding, and netering the information.
 - * It ensure be proper complie tion with accertage
- * It should be easy to fill and straightforward.

mportend task otany system. During output listle most importend task otany system. During output Design devoloped identify the type al output someobel, and consider the necessary output controls and prototype report layout.

Answer to the question No. 3

object of Analysis modelling:

*Understanding oreeds: The process of anysis modelling in the understanding and extraction of user needs for the software system.

- * Communication: Analysis models facilitate communication between usen, clienk Developens, and testene.
- * Clanifying Ambiguites: Analysis model Assist in resolving requirement disputes and providing clarification on Unelean Areas.
- * Finding the Dorto Requisments; Analysis modelling autits in determining the relationship, entities, and qualities of the desta.
- # Defining Behavion: Amalysis modbelling in the differention of the system Dynamic behavior.
- @ System boundary Identification: it is made assimily analysis modelling which helps in defining the parameters of the software system.

Elements of Analysis model:

- 1 Dada Dinectory: It is a repository that consists of a description at all data objects used of producted by the software it stones the collection of Data present in the software It is very envial element of the analysis model. @ Entity Relationship Diagram (ERD): It depicts the relationship between data objects and is used in conducting data modeling
- 3 Data Flow Digram(DFD): IT depiets the function that Transformed when moving forem input to output,

@ State Transition Diagram: It shows various modes of behaviors (States) of the system and also show the Transitions from one state another stell in the system etc.

Answer to the question No: 4

approach the design of the system. It is called so because it starts from the bottom on the most bosic level modules and more towards the highest level modules.

Advantage	Disadvantage
Provides follows when new ystem. Fails offens greatest security and Ultimatety testing of new system.	I causes cost anenrums. New System amony not get soin Trail.
2 Forces users to make new system work immediate benefit from new methods and comtrol.	21 No fall back it problems arix with new system nequines most caneful planning
If Allows traning and installation without unnecessary use of resources. Avoid large contingents from his k monetement.	4 A loang term phasein conversion goes well or not.
	4 Gives impression that old system is errone ows and it is not.