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Course Code : CSI-311

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Ans-to-Que-@ No-1

System Design

System Design is defined as a process of creating an architecture for different components, interfaces, and modules of the system and providing corresponding data helpful in implementing such elements in systems.

Input System Design and Output System

Designs

Input System Design

In an information system, input is the raw data that is processed to produce output. During the input design, the developers must consider the input devices such as PC, MICR, OMR, etc. Therefore, the quality

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of system input determines the quality of system output.

Output System Design?

A design output is a drawing or specification or manufacturing instruction.

Design outputs describe all the components, parts, and pieces that go into your medical device. Device Design outputs describe all assemblies and subassemblies of your product.

Ans-to-the-Q-No-2Advantages of Structured Analysis:

One of the benefits of using structured analysis is that the technique takes the client's needs into account from the beginning. The process of analysing and modelling the current system helps. It allows you to ask questions of the client, and gives them time to tell you about specific issues.

Advantages of Structured Design:

Structured design also helps in describing the functional aspects of the system. In structured designing, the structured system.

specifications act as a basis for graphically representing the flow of data and sequence of processes involved in a software development with the help of DFDs.

Ans-to the Q No-3

Objectives of analysis modeling:

The analysis model must achieve three primary objectives:

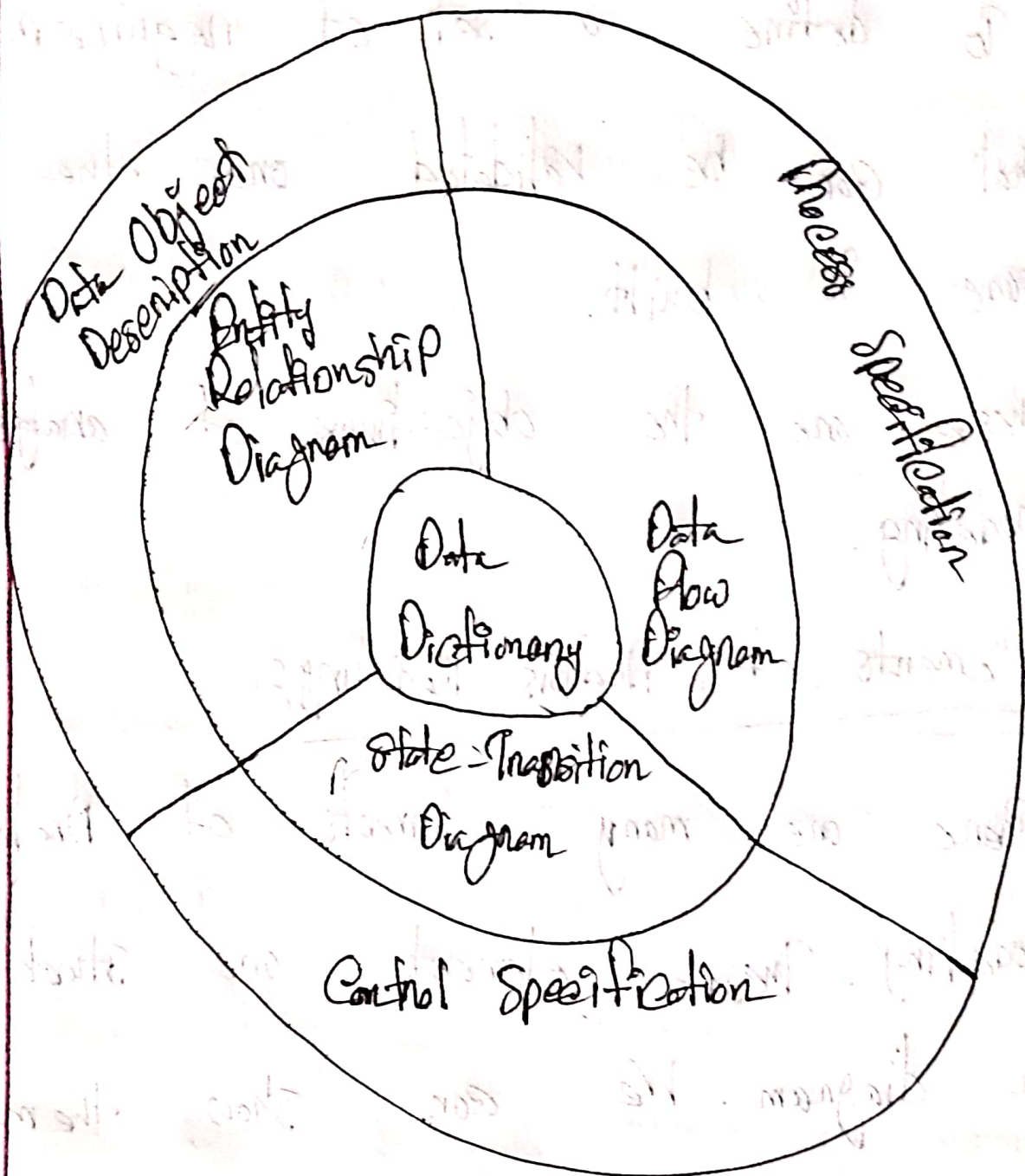
- ① To describe what the customer requires,
- ② To establish a basis for the creation of a software design.

③ To define a set of requirements that can be validated once the software is built.

These are the objectives of analysis modeling.

Elements of Analysis Modeling

There are many elements of Analysis modeling. These elements are shown in a diagram. We can show them in a graph model.



Data Dictionary

It is a repository that consists of description of all data objects used or produced by software.

Entity Relationship Diagram:

It depicts relationship between data objects and used in conducting of data modeling activity.

Data Flow Diagram

It depicts the functions that transform data flow and it also shows how data is transformed when moving from input to output.

State Transition Diagram

It shows various modes of behaviour of the system and also shows the transitions from one state to other state in the system.

Process Specifications:

It stores the description of each functions present in the data flow diagram.

Control Specifications:

It stores the additional information about the control aspects of the software.

Data Object Description:

It stores and provides the complete knowledge about a data object present and used in the software.

Ans - to the Q-No 4

Benefits of the bottom-up approach.

Advantages:Using your Resources:

You are already paying your staff to come to work and do their jobs, so you might as well also take advantage of the insights they glean from being immersed in day to day operations.

Boosting morale: Like everyone else, your employees will value feeling valued.

Flexibility

A business that uses a bottom-up approach is well positioned to ~~and~~ adapt when unpredictable circumstances occur.

Disadvantages:

Lack of Cohesion: When decision are being made at multiple levels, your business runs the risk of operating without a clear strategy.

Lack of experience: Although employees

often see and hear things that

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Managers do not, managers often have training and experience that allow them to consider the bigger picture.

Ego strikes when multiple employees are empowered to make decisions and purpose changes - your business runs the risk of having egos clash when staff members disagree.