

S1Q:

- 11 Component, Object-Oriented
Traditional view, Process view,
view, related

Component is a modular building block for Computer Software. It basically defines data structures, algorithms, interface characteristics, and communication mechanism allocated to each component.

Object-Oriented view is a component viewed as a set of one or more co-operating classes. O-O view explains both types of operations and attributes, & interface as well that enables you classes to communicate & collaborate.

Traditional View:

In the context of traditional software engineering, a component is a functional element of a program that incorporates processing logic, the internal data structures required to implement the processing logic - ^{an} and an interface that enables the component to be invoked ^{an}

Process related view:

Process-related view emphasizes building software from existing components maintained in a library rather than creating from scratch.

Designing components to be reusable in this manner

requires that each component contain a complete description of its interface.

(2) Conducting Component-level design:

It describes all design classes that are not acquired as reusable components, and specifies message details.

Identifies appropriate interface for each component and elaborates attributes and defines data types & data structures required to implement them.