(01)   What is software?

==>   Software is a set of programs (sequence of instructions) that allows the users

to perform a well-defined function or some specified task.

(02)   What is software engineering?

==>   Software engineering is the branch of computer science that deals with the   design, development, testing, and maintenance of software applications. Software engineers apply engineering principles and knowledge of programming languages to build software solutions for end users.

(03)   Explain types of software?

==>   1. System software

2. Utility software

3. Application software

(04)   What is SDLC? Explain each phase of SDLC ?

==>   An SDLC (software development life cycle) is a big-picture breakdown of all the steps involved in software creation (planning, coding, testing, deploying, etc.). Companies define custom SDLCs to create a predictable, iterative framework that guides the team through all major stages of development.

(05)   What is DFD?

==>   A data flow diagram (DFD) maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows, plus short text labels, to show data inputs, outputs, storage points and the routes between each destination. Data flowcharts can range from simple, even hand-drawn process overviews, to in-depth, multi-level DFDs that dig progressively deeper into how the data is handled. They can be used to analyze an existing system or model a new one. Like all the best diagrams and charts, a DFD can often visually "say" things that would be hard to explain in words, and they work for both technical and nontechnical audiences, from developer to CEO. That is why DFDs remain so popular after all these years. While they work well for data flow software and systems, they

are less applicable nowadays to visualizing interactive, real-time or database-oriented software or systems.

(06)   What is Flow chart?

==>   A flowchart is a type of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task.

The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analyzing, designing, documenting or managing a process or program in various fields.

(07)   What is Use case Diagram?

==>   Use-case diagrams describe the high-level functions and scope of a system. These diagrams also identify the interactions between the system and its actors. The use cases and actors in use-case diagrams describe what the system does and how the actors use it, but not how the system operates internally.