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| 1. | What is software? What is software engineering? |
| Ans. | * **Software** is the language of computer .It is a collection of computer programs and related data that provide the instructions for telling a computer what to do and how to do it. **Software Engineering** is a systematic approach to the design, development, operation, and maintenance of a software system. |
| 2. | Explain types of software |
| Ans. | 3 main groups depending on their use and application.  1) System software / operating system.  2) Application s/w  3) Programming language |
| 3. | What is SDLC? Explain each phase of SDLC |
| Ans. | **SDLC** is a structure imposed on the development of a software product that defines the process for planning, implementation, testing, documentation, deployment, and ongoing maintenance and support. There are a number of different development models.  **SDLC Phases**   |  |  | | --- | --- | | 1. Requirements Collection/Gathering | Establish Customer Needs | | 1. Analysis | Model And Specify the requirements- ―What‖ | | 1. Design | Model And Specify a Solution – ―Why‖ | | 1. Implementation | Construct a Solution In Software | | 1. Testing | Validate the solution against the requirements | | 1. Maintenance | Repair defects and adapt the solution to the new requirements | |
| 4. | What is DFD? Create a DFD diagram on Flipkart |
| Ans. | **A Data Flow Diagram (DFD)** is a traditional way to visualize the information flows within a system. A neat and clear DFD can depict a good amount of the system requirements graphically. It can be manual, automated, or a combination of both. It shows how information enters and leaves the system, what changes the information and where information is stored. The purpose of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communications tool between a systems analyst and any person who plays a part in the system that acts as the starting point for redesigning a system. |