**MODULE:1 (SDLC)**

Q-1 What is software? What is software engineering?

Ans. Software is a set of instructions,data or programs used to operate computers and execute specific tasks.

Software engineering is defined as a process of analyzing user requirements and then designing, building, and testing software application which will satisfy those require- ments.

Q-2 Explain types of software.

Ans. There are two main types of software are :

1)system software: it is a type of computer program that is designed to run a computer’s hardware and application programs.**e.g.,**windows as o.s in computer and android as o.s. in mobile

2)Application software: it is a type of computer program that performs a specific personal,educational,and business function.**e.g.,**amazon,flipkart,paytm,etc….

Q-3 What is SDLC? Explain each phase of SDLC.

Ans. It is a structured process that enables the production of high-quality,low-cost software , in the shortest possible production time.

Software development lifecycle (SDLC)

1)Requirements: A reasonable product delivery demands correct requiremnets gathering , the efficient examination of requirements gathered, and clear requirement documentation as a precondition

2)Analysis: The analysis phase also gathers business requirements and identifies any potential risks.

3)Designing: the design phase seeks to develop detailed specifications that emohasize the physical solution to the user’s information technology needs.

4)Development: It is to convert the system prototyped in the design phase into a working information system that addresses all documented system requirements.

5)Testing: The testing phase of the software development lifecycle (SDLC) is where you focus on investigation and discovery.

6)Deployment: the deplypoment phase in SDLC includes the work necessary to deploy the final solution into the target production environments.

7)Maintenance: The maintenance phase of the SDLC occurs after the product is in full operation.

Q-4 what is DFD? Create a DFD diagram on fllipkart.

Ans. A data-flow diagram is a way of representing a flow of data through a process or a system.

user

ATM

Withdrawal system

**Q-5** What is flow chart? Create a flowchart to make addition of two numbers.

Ans. A flowchart is a picture of the separate steps of a process in sequential order.

start