Module 1

[1] What is software Engineering?

• The design, the development, and the maintenance of software.

[2] What is SDLC?

• Software development life cycle

[3] What is software Development Methodology?

Software development methodology refers to structured processes involved when working on a project.

- 1. Waterfall model (Classical software cycle)
- 2. Iterative model
- 3. Agile model
- 4. Bohem's Spiral model
- 5. Use-case

[4] What is agile methodology?

- No deadline fix
- Having so many interaction and divide data in categories
- Agile manifesto principles
 - 1. Individuals and interactions
 - 2. Working software
 - 3. Customer collaboration
 - 4. Responding to change

[5] What is use-Case?

- A use-case is the specification of a sequence of actions
 - → Actors
 - → Node coverage

[6] What is Activity Diagrams?

 Activity diagram is basically a flowchart to represent the flow from one activity to another activity.

[7] What is SRS?

Software requirements specification

[8] What is Programming?

- the process of creating a set of instructions that tell a computer how to perform a task.
 - ★ programming languages
 - → Python
 - → JAVA
 - **→** C
 - **→** C++
 - **→** C#
 - → PHP
 - → .NET

[9] What is oops?

Object oriented programming

[10] Write Basic Concepts of oops?

- 1. Object
- 2. Class
- 3. Encapsulation
- 4. Inheritance
- 5. Polymorphism
 - A. Overriding
 - B. Overloading
- 6. Abstraction

[11] What is object?

 Any living things which has own state and behaviour Ex: Pen, Paper Mobile

[12] What is Class?

Collections Of objects

Ex: Human body, Classroom

[13] What is RDBMS?

Relational Database Management System

[14] What is SQL?

• Structured Query Language

[15] Write SQL Commands

- SELECT extracts data from a database
- UPDATE updates data in a database
- DELETE deletes data from a database
- INSERT INTO inserts new data into a database
- CREATE DATABASE creates a new database
- ALTER DATABASE modifies a database
- CREATE TABLE creates a new table