**First Assignment**

(1) What is SDLC

software development lifecycle is frequently used in technology to refer to the entire process of technology innovation and support.

(2)What is software testing?

Software testing is the process of evaluating and verifying that a software product or application does what it is supposed to do.

(3)What is agile methodology?

The Agile methodology is a project management approach that involves breaking the project into phases and emphasizes continuous collaboration and improvement

(4)What is SRS

A software requirements specification (SRS) is a document that describes what the software will do and how it will be expected to perform.

(5)What is oops

Object-oriented programming (OOP) is a computer programming model that organizes software design around data, or objects, rather than functions and logic.

(6)Write Basic Concepts of oops

* Classes
* Objects.
* Abstraction.
* Encapsulation.
* Inheritance.
* Polymorphism

(7) What is object

object is a real-world entity that has attributes, behavior, and properties.

(8)What is class

A class is a group of objects which have common properties.

(9)What is encapsulation

Encapsulation is a way to restrict the direct access to some components of an object, so users cannot access state values for all of the variables of a particular object.

(10) What is inheritance

Inheritance is the process by which genetic information is passed on from parent to child.

(11)What is polymorphism

Polymorphism is one of the core concepts in OOP languages and describes the concept wherein you can use different classes

(12)Draw Usecase on Online book shopping

(13)Draw Usecase on online bill payment system (paytm)

(14)Write SDLC phases with basic introduction

SDLC has defined its phases as, Requirement gathering, Designing, Coding, Testing, and Maintenance

(15)Explain Phases of the waterfall model

analysis, design, implementation, testing, and operation.

(16)Write phases of spiral model

The spiral model has four phases: Planning, risk analysis, product development and next phase planning or Evaluation

(17)Write agile manifesto principles

Individual interaction

Work in software

Customer and calibration

Responding into change

(18)Explain working methodology of agile model and also write pros and cons

Agile sdlc model is a combination of iterative and incremental process model with focus on process adaptability and customer

(19)Draw use case on Online shopping product using COD

(20)Draw use case on Online shopping product using payment gateway.