**\* Software Testing Assignment.\***

1. **What is SDLC.**

Ans. Software development life cycle defines the process for planning, implementation, Testing,

Documentations, deployment and ongoing maintenance and support.

1. **What is Agile methodology?**

Ans. Agile model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product. It is a flexible model; it is change with customer demand.

1. **What is SRS?**

Ans. A software requirements specification (SRS) is a complete description of the behavior of the system to be developed. Example: Amazon.

1. **What is oops?**

Ans. OOPS is an Object-oriented programming.

1. **Write Basic Concepts of oops.**

Ans. Concepts of OOPS are:

Object, Class, Encapsulation, Inheritance, Polymorphism, Overriding, Overloading, Abstraction.

1. **What is object?**

Ans. An object represents an individual, identifiable item, unit or entity, either real or abstract, with a well-defined role in the problem domain. An object is like a black box, the internal details are hidden.

1. **What is class?**

Ans. It is a blue print of Object; a class represents an abstraction of the object and abstracts the properties and behavior of that object.

1. **What is encapsulation?**

Ans. Encapsulation is the practice of including in an object everything it needs hidden from other objects. The internal state is usually not accessible by other objects.

1. **What is inheritance?**

Ans. Inheritance describes the relationship between two classes. A class can get some of its characteristics from a parent class and then add unique features of its own.

1. **What is polymorphism?**

Ans. Poly refers too many. It is a single function in many ways different upon the usage is called polymorphism. The ability to change form is known as polymorphism.

**11) Write SDLC phases with basic introduction.**

There are 6 SDLC phases.

> Requirements Gathering- Establish Customer Needs.

> Analysis- Model and Specify the requirements- “What”.

> Design There - Model and Specify a Solution – “Why”.

> Implementation- Construct a Solution in Software.

> Testing- Validate the solution against the requirements.

> Maintenance- Repair defects and adapt the solution to the new requirements.

**12) Explain Phases of the waterfall model.**