

Software Testing Assignment

Module-1 (Fundamental)

Q.1 What is SDLC ?

A Software Development Life Cycle is essentially a series of steps, or phases, that provide a model for the development and lifecycle management of an application or piece of software.

Q.2 What is Software Testing?

Software testing is a process used to identify correctness, completeness, quality of developed computer software.

Q.3 What is Agile methodology?

Agile SDLC 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.

Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements.

Q.4 What is SRS?

A Software Requirement Specification is a complete description of the behaviour of the system to be developed.

In SRS Three types of requirements;

1. Customer Requirements
2. Functional Requirements
3. Non-Functional Requirements

Q.5 What is oops?

Identifying objects and assigning responsibilities to these object.

Q.6 Write Basic Concepts of oops.

Object oriented programming

Q.7 What is object?

Any living things which has own state and behaviour.

ex: Table, chair.

Q.8 What is class.

Collection of objects.

ex: classroom

Q.9 What is encapsulation.

Wrapping up of data or binding of data. Encapsulation enables Data hiding.

ex: capsule

Q.10 What is Inheritance.

When one object acquire all the properties and behaviour of parent class.

ex: father-son.

Q.11 What is polymorphism.

Many ways to perform anything. Functions to take on multiple forms.

Q.12 Write SDLC phases with basic introduction.

SDLC Phases :

1. Requirement Gathering : Know Customer Needs
2. Analysis : Model and Specify the requirements - "What"
3. Design : Model and Specify a Solution - "Why"
4. Implementation : Construct a solution In Software
5. Testing : Validate the solution against the requirements
6. Maintenance : Repair defect and adapt the solution to the new requirements

Q.13 Explain Phases of the waterfall model.

In waterfall model requirement must be Frozen to early in the life cycle. Requirement are validated too late. Easy to arrange tasks. In this model project is short.

Waterfall model Phases :

1. Requirement Gathering : Product requirements are understood from the customer.
2. Analysis : Model and Specify the requirements - "What"
3. Design : Model and Specify a Solution - "Why"
4. Implementation : Construct a solution In Software
5. Testing : Validate the solution against the requirements
6. Maintenance : Repair defect and adapt the solution to the new requirements







