Software Testing is a Process which has all Software Testing Life cycle Activities like static testing, dynamic testing , planning, preparation, evaluation of product that it meets customers requirement and it is fit to use by customers.

Software Testing is to find defects in software or failures in advance.

Example – In any manufacturing product – All the parts used in product like TV, Music system are tested individually and then after integrating tested as a system. It is fit for use and then releasing to market

Similarly, the software testing – You test the different units of software. Then after integrating then the system is tested as a whole, and it is fit to use.

Software testing definition by ISTQB

1.Software Testing is Process

1. Testing is Process
2. Both Static and Dynamic Testing
3. Planning
4. Preparation
5. Evaluation
6. Software Products and other Products

2.Objectives of Testing

1. Software meets the requirement
2. Software is fit to use
3. Find defect/bug in software

1 a. Testing is Process – It is not stand-alone activity. It is series of activities. Software Testing is done in all phases of SDLC. Static testing is done by reviewing the SRS. HLD is reviewed that it meets the requirement. Once the build is ready dynamic testing is done. It validates the product that it meets requirement.

1 b. Static and Dynamic Testing - Static testing or verification is done at

* Technical Review
* Walkthrough
* Inspection
* Code Analysis

Dynamic Testing –

* Unit Testing
* Integration Testing
* System Testing
* Acceptance Testing

1 c. Planning – Testing involves a lot of planning.

* What to achieve
* Who will do what
* Time frame for each activity
* Control Test Progress
* Prepare test summary reports

1 d. Preparation

* Prepare Test case
* Prepare Test Data
* Prepare Test Environment

1 e. Evaluation

* Start testing the product
* Meets exit criteria
* Meets the user requirement
* Usability test

1 f. Softwarre Product and Related Product

* SRS
* HLD
* Quick reference guid
* Installation Guid