# Day-2

Hello Engineens, yesterclay we learn ) what is testing & why it is important.
Lets start with more in detail.

\* Testing and Debugging:

As you all avoire that testing of Debugging is different:

Testing & Debugging.

\*Executing test case can cause by defect

Activity that finals, Analyzes, and fixes there types defects.

# => Quality Assurance and Testing

Quality Assurance + Testing

Larger Concept quality monagement fied them together.

Guality Mangement includes all Activities that direct and Control and organization with suggested to Quality?

Quality management = Quality Assistance + Quality Coulod

Quality Assumes mostly focused on proper process, in order to provide Confidence that the appropriate quality will be achieved.

including testing Activities, that support the Appropriate level of quality. Test Activities one part of the overall SIV developmentor maintenance Process.

## DA = Proper testing + Proper Execution of Testing Process.

Mno Lets Discuss About Error, Defect of Failure.

A Defect A defect in 8/w testing is a variation of the 5/w application from End user sequirements or original business requirements.

So, in short. Sludefect is on error in coding which cause incorrect results from spon

The Root cause of the defect are

the earliest condition that contributed to create the defects.

Root cause Analysis well help you to reduce the occurence of defect.

hour cause analysis can lead to process improve ment that prevent a significant number of Juture defects. RoOt Cause of defect is an Important topic for ISTAB Exam.

det take on Example for better understandig of Root Cause, defect, Error in S/W Testing:

Suppose, incorrect mittest bayment, ducto a Single of mearment coole, result in Customer Complaints. So in this example

Effect: - Customer comprains.

Failure :- The incorrect movest boyment.

Defect: Improper Calculation in the cook,

The Root Cause of the original defect was a lack of knowledge on the poort of the brocket owner which ensured in the product owner making om Error while withing the uper story

### \* 7 - Testing Principals

Z. Testing shows the presence of defects, not their Absense.

Testing can show that defect are present, but connot prove the there is no defect.

Exhaustive testing is impossible

Testing everything is not feasible

Except for Trivial Cases.

4 A Trivial case we take example

of testing already sorted list.

3. Early Testing sowes time and money

To Find defect early, in Static and Dynamic test activities should be started as early as possible in the SDLC.

Early terting also known as "shift left".

if the question asked in the noterview or in Exam

what is shift left testing

your Answer should be like this:

Easly testing whether it is static or pyramic is

### 4 Defect cluster together

A small number of modules usually contains most of the defets obscovered during pre-scaleage testing, or is responsible for most of the operational failures.

Predicted defect clustors, and the actual observed defect clusters in test or operation, are on important input into a sisk analysis used to Jours the test efforts.

#### 5. Perticide Paradon

Jests ove no longer effective at finding defects, Just as pesticide are no longer effective at killing Insects often a while.

if some tests cocellepeated over and over again, wentally there tests no longer find any new defect.

#### 6. Context dependent

Terting done differently in different content. For example: Terting in on Agil project is done differently than testing in Sequencial SDLC.

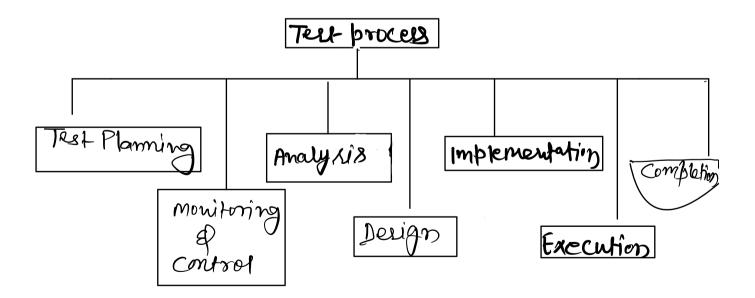
For Absense of error is a fallacy
Some organizations expect
that testers can run all possible tests of find
all possible defects but testing principal 1.

and 2. Shows that it is impossible.

So m ISTOB they have around lor 2 question based on bug, defect, failure and principus of testing.

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Thank you reading this till End. In next we will discuss about Test process in Detail.



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