Unit-III

CHARACTERISTICS OF A GOOD

<u>U</u>

TEST

Good measuring Instrument??

Gives an accurate estimate of the ability being measured.

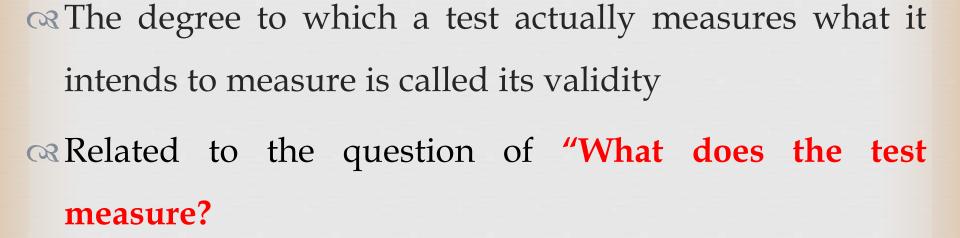
Reasures without errors and gives true scores





CR Characteristics related to Error. **v** Validity **G** Reliability **Objectivity 3** Norms **Practicability**

Characteristics related to **Usability** Rease of administration Rease of Scoring Rease of interpretation **R** Economy **A** Interesting



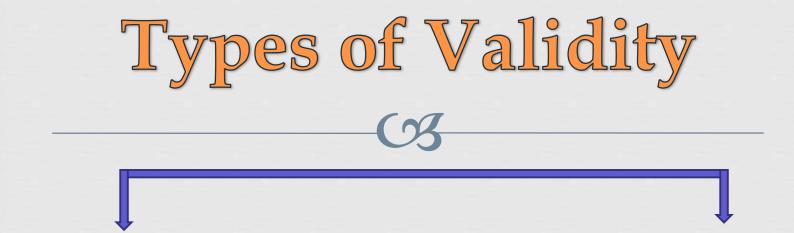
VALIDITY ??

Real Action Acti

"Truthfulness of the Test"



A test is valid when the performance measured corresponds to the same performance as otherwise independently measured or objectively defined (Comparing the data obtained from the test (instrument) with standard measures (independent criteria)



- **G** Face Validity
- **Content** Validity
- **Construct** Validity

Empirical/Criterion related
 Predictive Validity
 Concurrent Validity

Factors affecting Validity

callack of validity due to the factors related to the test Ambiguity in specifying the procedures for responding, wording of an item, difficulty level of items, wrong sampling, lack of clarity



Factors affecting Validity

R Lack of validity due to the Nature of

content of the test

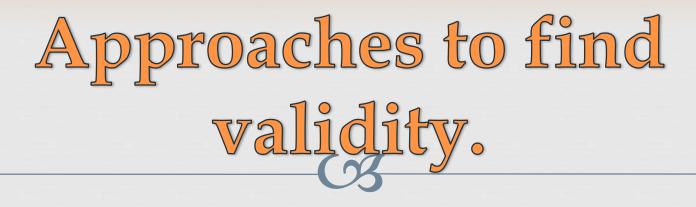
(Specific Objectives)

R Lack of validity due to the responses

of the test takers

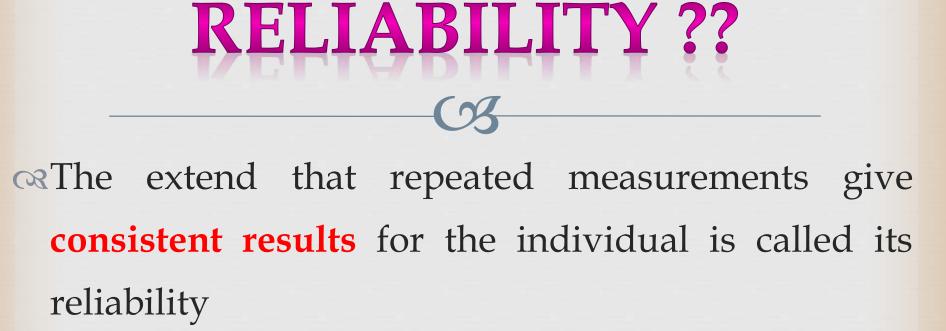
(Emotional disturbances, lack of mental preparation, response set etc)





Constraints
Constraint





Covers several aspects of "Consistency of scores"
 The measures of reliability characterizes the test when administered under standard conditions and given to a group similar to the normative sample..

RELIABILITY ??

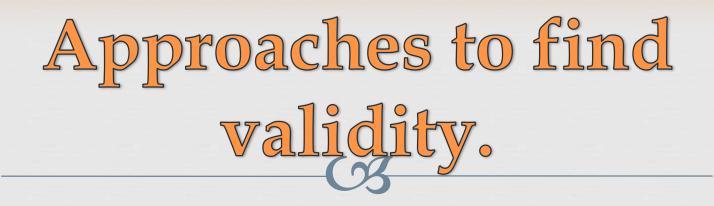
Concerned with the degree of consistency- can be expressed in terms of a correlation of coefficient.
 Adequacy and objectivity of a test- two important aspects

n't understand this question I didn't understand this question I didn't understand this question

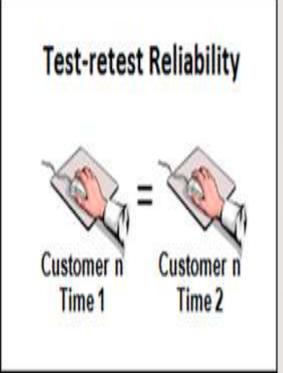


All Constants All Constants of the second the Test-**R**Variability of the group-**Ability** level of the subjectsof **Range** measuring instrument-

Objectivity of scoring-**Scoring technique-©Difficulty level of** the test-**Ambiguity**-**R**Testing conditions-



CRTest- retest Reliability CREquivalent-forms CRInternal consistency





Split half method

Reliability of full test = 2 X Reliability on first ½ test 1+ Reliability on second ½ test Kuder Richardson method (KR-20 and KR-21)

$$KR - 21: \eta = \frac{\eta}{\eta - 1} \left[1 - \frac{z_{1} p_{0}}{s_{2}^{2}} \right] z_{1}$$

OBJECTIVITY ??

- The degree to which a test's results are obtained the same by scoring different scorers without influences of their biases or beliefs on scoring is known as objectivity.
- Real Most standardized tests of aptitude and achievement tests are high in objectivity.
- In essay-type tests requiring judgmental scoring, different persons get different results or even the same person can get different results at different times

The objectivity of a test is determined by carefully studying the administration and scoring procedures Objective-type tests such as true/false, multiple-choice, and so on are developed to overcome the lack of objectivity in tests.

OBJECTIVITY ??

○ Objectivity in essay-type tests, may be increased by careful phrasing of questions and by a standard set of rules for scoring



Objectivity of Scoring:

Objectivity of Test Items:

