Null hypothesis and Altemative hypothesis: hypothesis hypothesis tested Possible retection assumption th

Example:  Suppose we think, that the average age of BS  Student is 16 years written as Ho: M = 16 years  Alternative hypothesis:  An alternative hypothesis  is any hypothesis which is accepted, when the null hypothesis is rejected.  It is denoted by HI  Example:  If our null hypothesis  is Ho: M = 16 years, then	
the average age of BS  Student is 16 years written as  Ho; M = 16 years  Alternative hypothesis:  An alternative hypothesis  is any hypothesis which  is accepted, when the  null hypothesis is rejected.  It is denoted by Hi  Example s-	
Ho: M = 18 years  Alternative hypothesis =  An alternative hypothesis  i,s any hypothesis which  is accepted, when the  null hypothesis is rejected.  It is denoted by Hi  Example s-	
Ho: M = 18 years  Alternative hypothesis =  An alternative hypothesis  i,s any hypothesis which  is accepted, when the  null hypothesis is rejected.  It is denoted by Hi  Example s-	
Alternative hypothesis:  An alternative hypothesis  i,s any hypothesis which  is accepted, when the  null hypothesis is rejected.  It is denoted by HI  Example 3-	
An alternative hypothesis  i,s any hypothesis which  is accepted, when the  null hypothesis is rejected.  It is denoted by Hi  Example 3-	
i,s any hypothesis which is accepted, when the null hypothesis is rejected. It is denoted by Hi Example a-	
is accepted, when the null hypothesis is rejected.  It is denoted by HI  Example 3-	
null hypothesis is rejected.  It is denoted by HI  Example 3-	-
It is denoted by HI  Example 3-	
Example a- If our null hypothesis	
If our null hypothesis	
, Y., Y., II	
is Ho: M = 16 Years, then	
the alternative hypothesis	
may be	
HI3 U # # 16 Years OY	
HI3 M 7 16 Years	
	at no
	y 150

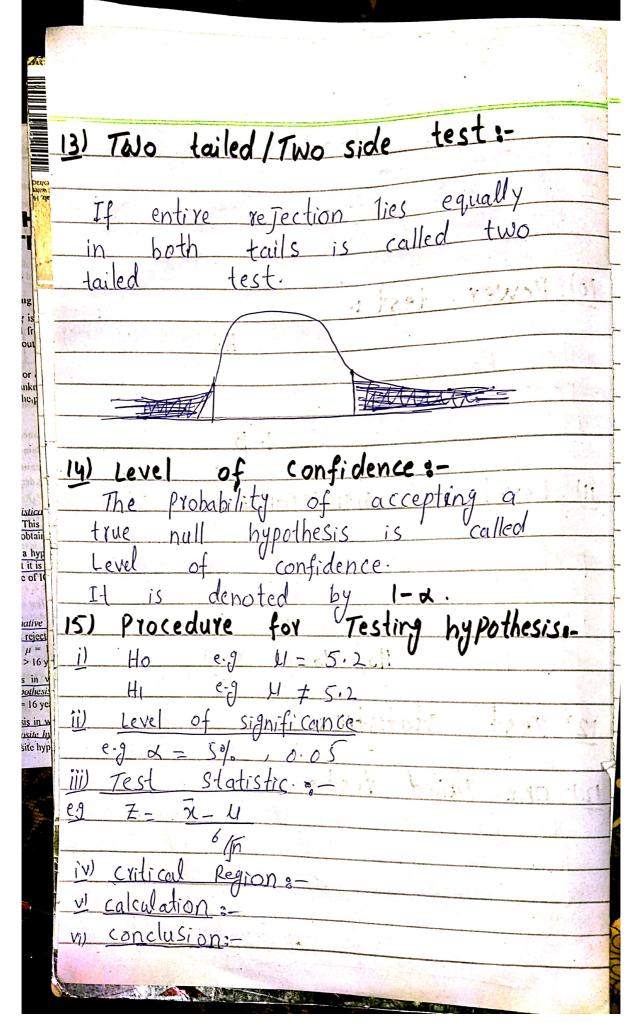
# <u>ch相信</u>

# Hypothesis testing

n HA	Pothesis testing 1- (Procedure)
	The Dieselect
which.	enables us to decide whether
Brahman and John Steel on Allenda	O' VETECT WALL
Marketina in the Market Comment	well on the back of
2) Stat	listical hypothesis: (pg)
The state of the s	H statement
Which	may av
is c	alled statistical hypothesis.
3) Simp	ile hypothesis:2-
and the second s	allcel statistical hypothesis.  ole hypothesis:  hich the value of the
$\frac{1}{1}$	hich the value of the
population	on parameter is specified  lled simple hypothesis.
i o	Hea simple hypothesis.
STATE OF THE PROPERTY OF THE P	M 1()
TO COM	posite hypothesis:-
American Company of the Company of t	A hypothece
n-n-l-l	The state of the s
populazion	Parameter is not specified.
S Caller	d composite hypothesis. 18e U516  Statistics:- U216
JEST	Statistics:- UL16
Market Committee of the	A tect chil
is a:	function/formula of
observati	ion that Provides a basic
	LU JIC

Virginia to the second of the
for tecting a null hypothesis.
The most commonly used test
for testing a null hypothesis.  The most commonly used test:  Statistic are Z, t and x
6) Acceptence Region:
Acceplence
region is the part of sampling
distribution of a statistic which
leads to the acceptence of
Ho.
7) Rejection / critical Region:-  Critical Region is the Part of Sampling dichelling
Critical Region is the Part of
Clisty, bution of a
Statistic which leads to the
8) Type one errors - ( of) deside
X Cam Ic.
Probability of reject How when
Ho is true is called type-I error. e.g. 1) An innocent person is punished
by Police 2) A deserving player is not
9) Type-II errors- selected in the team.
Probability of accept Ho when
Ho is false is called type_II
error. It is denoted by B.
Example:
Scanned with CamScanner

U A disable person selected fors
hockey team.
hockey team. 2) A weak student may be passed
by the examiner.
V
10) Power test:
Reject Ho (null hypothesis
when Ho is false is called
power of test.
It is denoted by 1-B
2 30 H 3 3 1 - H 3 1 -
11) Level of significance :-
probability of making type-I error is called Level of significance.
is called Level of significance.
It is denoted by
d=P(Reject Ho/ Ho is true)
i e i l'aliaba
12) Test Statistic:
12) one-Tailed test:
If entire rejection lies either in
'I had a led one
Repertion again
region region naphra
Pegion
Lo.



# 4 Formulas>

# t - distribution :-

### Z- distributions-

i) 
$$Z = \overline{X} - \underline{U}$$
 ii)  $Z = \overline{X} - \underline{U}$   $6/\overline{D}$   $6/\overline{D}$ 

#### Condition

## Test Statistic

$$Z = \overline{\chi} - U$$

$$Z = \overline{\chi} - \mu$$

$$S^{\bullet}/\overline{n}$$

$$t = \overline{x} - \mu$$