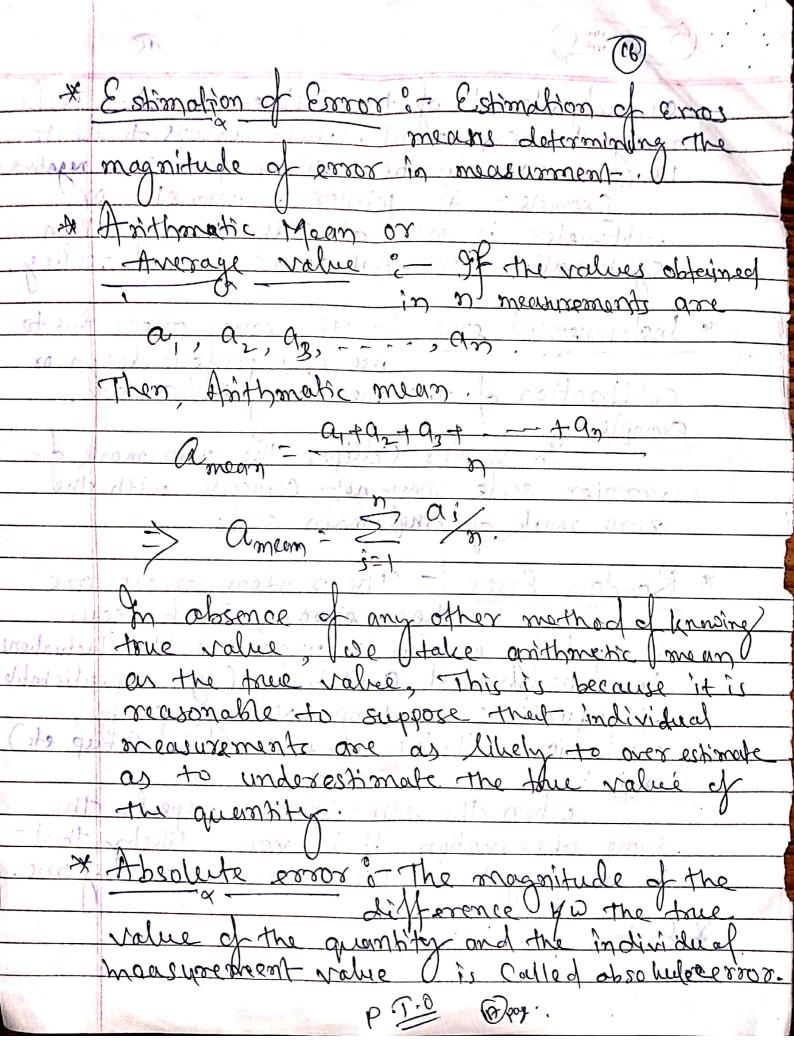
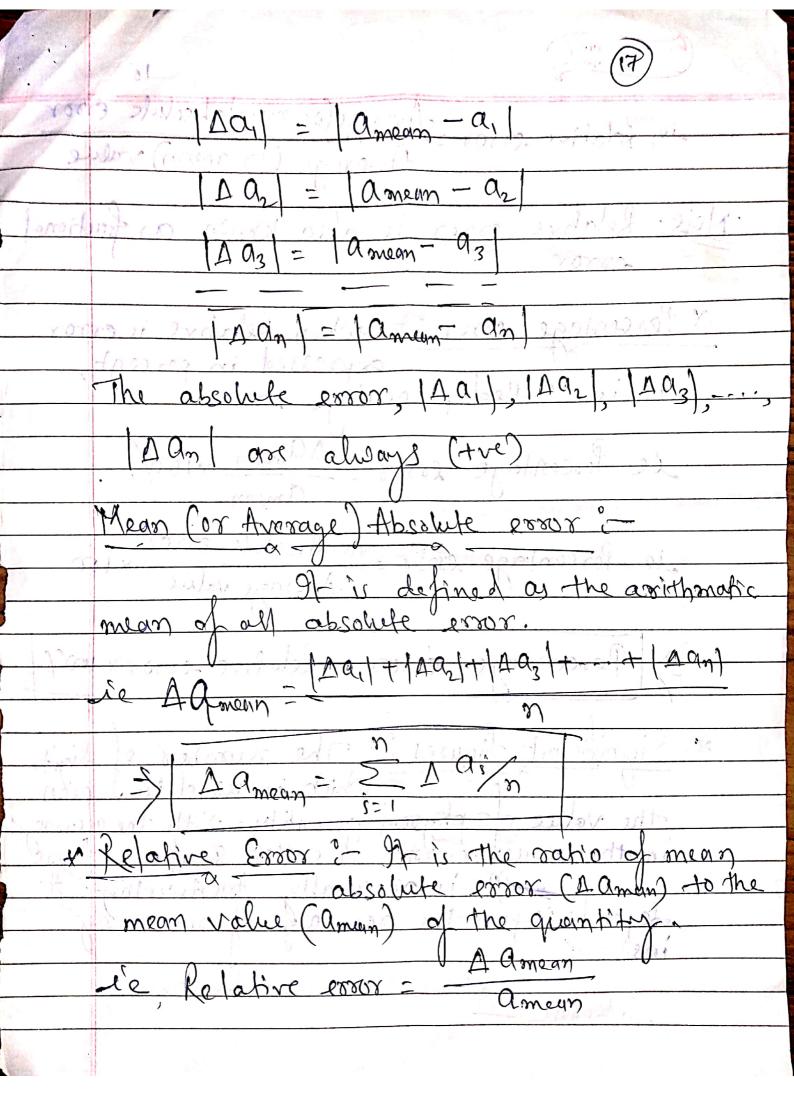
3. It can exist for only 19th exists only ohn a set
one measurement. I of measurement is carried
out in our
4. Accurate mouvement - Precice measurement may
may not be precise not be accurate.
5. Example - 9t a dia of 19t dia of wise is 25mm
wire is 2.5 mm by and relading are 2.49,
measurement it condes 2.48 mm, 2.01 mm
2.5 mm then reading 2.52 mm then reading
Is accurate. I are said to be precise
* Errorein a measurement: The errors in a measurement to che difference
ional The errors in a
11 200 4 3 3 1 4 3 1
between the true value and the measured
value of the quantity.
Error = True Value - Measured value
There are different types of error,
they gave my
Cystematic error
(2) (Instrumental error
3 Kandom eoror.
(1) Systematic error o Systematic errors dre caused
due to the defective setting

or adjustment of the instruments while personming the experiment. These errors tends to be (in one direction, either positive or regative voltmeter is not at zero initially, then systematic error will occur in each reading * Instrumental error of The error orices due to Colibration of the measuring instrument. Example: - In vornier Calliper the zero mark of versier scale may not coincide with the zero mark of the main scale * Kandom Error - The random errors are
those errore which aroun Those errors, Shich occur irregularly or due to unprodictable fluctuation in experimented Conditions (eg-unpredictable flue fuations in temp, voltage supply, mechanical vibration of experiental sklup etc) Example: When the same person repeats the Same observation it is very likely that he may get different realizes enoughme

(11)





	18
ie Robbine orma Aver	age (or mun) absolute error
Av.	erage (or mean) value
· Mote-Relative error is	
* Percentage error :-	when Relative is error
* Percentage error :-	tage error
ie Percentage server	
	Mana Lav A
le Perconteige error =	Arrage value
	design for the contrate
=> Percentage esson	= Relative essos x 100%
* Significant figures à	The number of lights which is used to become
in the meastirement-	is called Significant figure.
depends upon the a	ecurally toustworthy. It
Rules for t	he identification de
Significant	
0	

