



UGANDA NATIONAL EXAMINATIONS BOARD

Areas of Divergence and Resolutions for marking physics practical papers

SUBJECT	RESOLUTION
Table Notation for units in tables and labels Of axes using forward slash(/)	Data should be presented in column form. Related values should be next to each other. Candidates should be penalized if they are not put next to each other. Units should be in brackets e.g. M (kg). Use of forward slash not to be accepted.
Number of figures to which measured values is to be recorded.	Least possible scale values on the instrument. Half or zero fraction of scale value to be accepted.(e.g. 12.40 or 12.45)
Significant figures (S.F) or Decimal Place (d.p) in calculated values.	Division and multiplication with float- S.F of measured value is to be used. Zero is a significant figure when it represents the accuracy of an instrument. E.g. 9.0 cm, the zero is significant. Division and multiplication with another measured value- S.F. of the value with least number of S.F is to be used. Addition & subtraction of decimals. The d.p of the least accurate value is to be used.

Log & trigonometric ratios	To be recorded to three decimal place.
S.F. was determined by first entry value in the column	Largest value in the column to determine S.F. of the processed values.
Graphs Title Axes Units	The use of "against," "Vs", "verses" and "variation with" in stating the title of a graph should be accepted. No unit in title. Labels that are vertical or horizontal are to be accepted. Units should be in brackets.
Plotting	The use of across(x), a dot (.) or a circle with a dot at the centre (o) with error limit of half a small square should be accepted. Shaded dots within this error margin are to be accepted too.
Scales	That spread the values to cover ^{at least} about half a page and that can be read without the use of calculators, preferably multiples and submultiples of 1, 2 ^{2.5} and 5.
Slope	Right angled triangle covering ^{at least} $\frac{1}{2}$ a page on at least one of the sides drawn. Points must lie on the line and must be shown.
Wrong values in the table obtained experimentally	Graphing to be awarded credit.
Suspect values, over rounded values for ease in plotting, calculated or outright fabricated values	To miss marks for plotted points but the rest of the work to be marked.