SEPTEMBER 2023 EBS 142P GENERAL PHYSICS PRACTICAL I -45 MINUTES

Candidate's Index Number				
Signature:				

UNIVERSITY OF CAPE COAST COLLEGE OF EDUCATION STUDIES SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION FOUR-YEAR BACHELOR OF EDUCATION (B.ED) FIRST YEAR, SECOND SEMESTER MID-SEMESTER QUIZ, SEPTEMBER 2023

27TH SEPTEMBER 2023

GENERAL PHYSICS PRACTICAL I

5:30 PM - 6:15 PM

Answer ALL the questions. [20 MARKS]

1.	phys	ical quantities. For each of the quantities listed below, mention the most appropriate ument used for its measurement.
	a.	Length of a thread:
	b.	Diameter of a wire:
•	c.	Time for a number of oscillations:
	d.	Inner diameter of a beaker:
	e.	Temperature of warm water:

2. The time for 20 oscillations for a simple pendulum for four different lengths were recorded in an experiment as follows:

Length I/cm	Time for 20	Period T = t/20	T^2/s^2
&	oscillations, t/s		
40	31.6		
50	39.5		
60	47.4		
70	55.2		

a.	Copy and complete the table for T and T^2 .	(6 marks)
b.	Plot a graph of T ² on the vertical axis and l on the horizontal axis.	(10 marks)
c.	Determine the slope of the graph	(2 marks)
d.	State any two precautions needed to be taken in carrying out the experiment.	(2 marks)