WAKISSHA JOINT MOCK EXAMINATIONS MARKING GUIDE Liganda Certificate of Education

Uganda Certificate of Education UCE August 2019 PHYSICS 535/3





While number a multiple of 5 or 2.5. 1. R1-Recording the mass m_0 value=01mk; unit = 1 mk, $(10-20)g$ whole number of 2 or 5. R2-Recording mass, m , of the bottle with water at $h = 2.0 \text{ cm}$ value=1 mk; unit=1 mk $(60-80)g$. with or with out wind. Subtotal for recording -fepathing values the best $t = 38.53s$ re carding in to table invalues of the apparatus can read Table of results the value than $(m-m_0)$ marked. $h(cm)$ $m(g)$ $(m-m_0)(g)$ computation if							
Subtotal for recording - Repeating values to best t = 38.53s re cording in to table myslus - If mo or mis							
Subtotal for recording - Repeating values to best t = 38.53s re cording in to table myslus - If mo or mis							
Subtotal for recording - Repeating values to best t = 38.53s re cording in to table myslus - If mo or mis							
- feperating values to best t = 38.53s re cording a in to table: myalues: - If mo or mis	01						
recording in to table mulles - If mo or mis	04034						
if the apparatus can rood, Table of results the value than (m-m) marked.							
the value thon (m-mo) marked. wrong, (m-mo)							
	The state of the s						
$h(cm)$ $m(g)$ $(m-m_0)(g)$ computation if	The second second						
2.0 70 6-80 55 correctly ferformed.							
- M not beyond 250g.							
- by the seattles of							
phothesis							
5.0 165 120-20 150 - then mo = x put							
6.0 175 & -230180 When mo = X put above (m-mo) column.							
7.0 215 200-20200 No mark for all values of							
T1-Design of a table with at least three (3) columns and h values entered(1mk)	01						
^							
T2- Labelling of other columns @ 1 mk	02						
T3- Recording five more values of m to no decimal places. 1 () 1 ()							
-Recording six calculated values of $(m-m_o)$ to 0 dps $@1/2mk$ Subtotal for table G1- Tittle of the graph, A graph of $(m-m_o)$ against h G2- Drawing and labeling axes. $@\frac{1}{2}$ Longordal and should not fouch the with all exists.							
						G3-Suitable and convenient scale with starting values indicated. 40	02
						04-Correctly protted o points (d)= 1-mark whole number ma	06 03
						G5- Line of best fit passing through 3 correctly plotted points	01/2
						- Should be drawn from the least ver line of the graph area to the of	wist.

WAKISSHA Joint Mock Examinations 2019

(A) Emphasise the Crosses
af the points of the

Stope

- Treangle starts from the

bush point at A and the

first point from B

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and the same of th	G6-method of slope (Large enough triangle) subtotal for graph work	01/201			
	Subtotal for graph				
	C1- Calculation of slope, substitution= $\frac{1}{2}$, value= $1mk$, unit = $1mk$ C2- Calculation of diameter d (subtn = $\frac{1}{2}$, value $1mk$, unit 1mk) Subtotal for calculation	-2½ 01½ 2½			
	Subtotal for calculation $C_1 - \text{Substitution} - \frac{1}{2}$ $- \text{Substitution} - \frac{1}{2}$ $- \text{Intermedia} - \frac{1}$	-12 -12			
	TOTAL FOR NUMBER ONE	=30			

u(cm) u(a columns with all onns V(cm)v/u@	values entered with 1/2 =01mk. sing @2mks		2½ 02 01 1½ 01 10 03 17							
of table with at least 2 of the rest of colum ding 5 more valu 6 values of v/u to 2 a u(cm) (c) 4 50 40 20	a columns with all the columns of V cm)v/u@ test of V increases $\frac{dp}{dp}$ and $\frac{1}{2}$. Table of resurve $\frac{1}{2}$. 17.8 18.0 18.7 19.0	values entered with $1/2 = 01$ mk. Sing @2mks $\frac{v}{u}$ 0.22 0.26 0.31	th a unit	0 11/2 0 10 03							
u(cm) (c) 4 (c) 50 (d) 40 (d) 20	res of V increase $\frac{dp @ \frac{1}{2}}{2}$ Table of resurve v(cm) 17.8 18.0 18.7 19.0	lts v 0.22 0.26 0.31	(3, Sps) (3dps) Make long langest quotient.	10							
u(cm) u(cm) 0 4 80 0 60 0 50 0 40 0 20	Table of results $v(cm)$ 17.8 18.0 18.7 19.0		(3 Sts) (3dps) Make long langest quotient.	03							
u(cm) u(cm) 0 4 80 0 60 0 50 0 40 0 20	Table of results $v(cm)$ 17.8 18.0 18.7 19.0		(3 Sts) (3dps) Make long langest quotient.								
u(cm) (c) 4 80 (c) 4 70 (d) 60 (d) 50 (d) 40 (d) 20	Table of results ν(cm) 17.8 18.0 18.7 19.0	$\frac{v}{u}$ 0.22 0.26 0.31	(3 Sts) (3dps) Make long langest quotient.								
80 70 60 50 3 40	v(cm) 17.8 18.0 18.7 19.0	$\frac{v}{u}$ 0.22 0.26 0.31	(3 sts) (3 dps) Take long langest quotient.	17							
80 70 60 50 3 40	17.8 18.0 18.7 19.0	0.22 0.26 0.31	Take long langest quotient								
70 60 50 3 40	18.0 18.7 19.0	0.22 0.26 0.31	largest quotient								
60 50 3 40	18.7 19.0	0.31	quotient.								
50 3 40	19.0		gustient.								
50 3 40		0.38	V V								
3 40	21.0										
20		0.53									
	23.5	0.78									
of a graph of 22 o	gainst v			01							
of a graph of v a	gainst $\frac{v}{u}$			01							
G2-Marking, labeling axes with units and arrows. If there's a district of any axes me score for as G1/G5, G6. G3-Suitable and convenient scale. — Storbing value of $V = 0$. Labeling should be multiples of the scale. G4-Correctly plotting 6 points @ $\frac{1}{2}$ — if no storbing value written and office of best fit. G5-line of best fit. G6-Method of getting slope											
						Subtotal for G					
						C1-Calculation of the slope-substitution @= $\frac{1}{2}$ Arithmetic @ $\frac{1}{2}$ Iv reading the intercept on v axis $I = 15$ — It is not storing $\frac{1}{2}$ value, $\frac{1}{2}$ units $\frac{1}{2}$ — $\frac{1}{2}$ C2-Calculation of from $\frac{s+t}{2} = \frac{12+10.0/2}{2}$					
f = 1	9.0-11.0	Cm :		.02							
TOTAL	FOR NUMBE	ER 2		30mks							
	ng, labeling axes we have the and convenient the way of the solution of the slope or G attion of the slope G attion of from G attion of from G attion of from G attion of G G G G G G G G	le and convenient scale. — Sports le an	ng, labeling axes with units and arrows. The distribution of any axes of the scale of the scale of the plotting 6 points @ $\frac{1}{2}$ - it is scale. It is plotting 6 points @ $\frac{1}{2}$ - it is scale. If best fit best fit od of getting slope or G The distribution of the slope-substitution @= $\frac{1}{2}$ Arithmetically are intercept on vaxis $I = 15$ - $\frac{1}{2}$ the scale of the slope-substitution of from $\frac{s+t}{2} = \frac{12+10.0/2}{2}$	In the slope substitution $@=\frac{1}{2}$ Arithmetic $@\frac{1}{2}$ and o in a xis o is o in							

03	
17	
01	
02	
02	

1	I s					
	T1-Design of table with at least 3 columns with l values entered.				11/201	
	T2-Labelling I(A) and	$\frac{1}{I}(A^{-1})$	100	,	01	
	T3 Record 5 more values of I decreasing to 2 d					
	To account more vara	13-Accord 3 more values of 1 decreasing to 2 d.p.s 20				
		9				
		Table of results				
		l(m)	I(A)	$\frac{1}{I}(A^{-1})$		
	0.16-0.28	0.200				
	0.14-0.24	0.200	0.24	4.2		
	0.12 - 0.50	0.300	0.22	4.5		
		0.400	0.20	5.0		
	0.10 - 0.18	0.500	0.18	5.6		
	0.08 - 0.16	0.600	0.16	6.3		
	0.04-0.14.	0.700	0.14	7.1		
	- Calculating 6 values of $\frac{1}{l}$ to 1dp $\frac{1}{2}$				03	
		Subtota	l for table	e (T)	17	
	-G1-Tittle of a graph	"A graph	$\frac{1}{7}$ of again	nst <i>l</i>	01	
	G2-Drawing and labeli				02	
	G3-Suitable and conver	nient scale.			02	
	G4-Correctly plotting 6	points	120		06 03	
	G5-Line of best fit			01/2 0		
	G6-Method of finding the slope.				01/2 0	
	Subtotal for graph G			10		
	C1-Calculating slope s - substitution & milmotic - 1/2			01		
	Iv-Reading intercept with unit - value - 1/2				01	
	C2-Calenlating l_o from $c = l_o s = substitute and substitute and l_o s$			01		
		Subtot	al for C and	Iv	03 30mks	
1						

2 marks

No 3 R1-Reading I when lo = 0.200m