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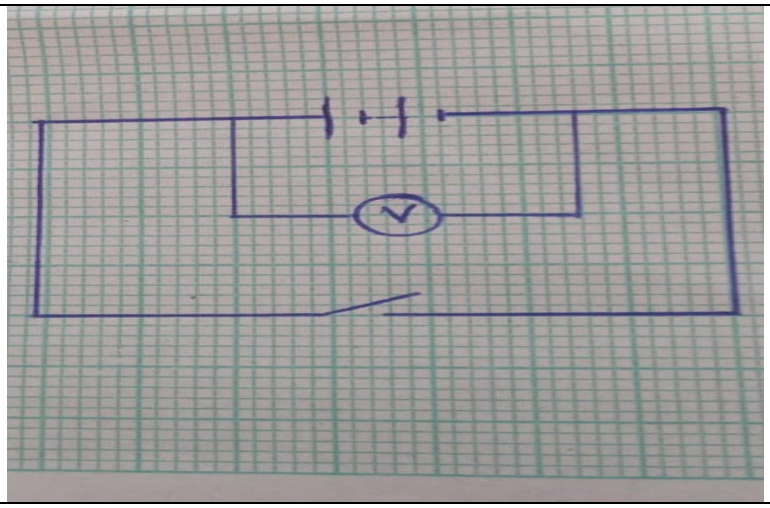
232/3
Physics
Paper 3
SEPTEMBER 2021
Time: 2 ½ Hours

BURAMU II –PHYSICS PAPER 3
MARKING SCHEME

QUESTION			ANSWER	MARKS
QUESTION 1 A		(i)	V = 1.4V – 1.6V	1mark
		(ii)	V = 1.25V –1.35V(at least 1d.p) I = 0.09A – 0.11A (2 d.p.)	1mark 1mark
		(iii)	Correct substitution of student own values of V and I Correct answer with units (to 4 s.f or exact)	1mark 1mark
QUESTION 1B		(i)a.		2marks
		b.	E = 2.9V – 3.2V (2 or 3d.p.)	1mark
		(ii)	V_{MAX}= 2.9V – 3.0V	1mark
		(iii)	t = 24.00s – 25.00s	1mark
		(iv)	<table><tr><td>V(V)</td><td>0.2</td><td>0.5</td><td>0.8</td><td>1.0</td><td>1.5</td><td>1.8</td></tr><tr><td>T(s)</td><td>24.20 24.80</td><td>16.00 16.90</td><td>11.50 12.20</td><td>9.30 10.30</td><td>6.00 6.60</td><td>4.00 4.80</td></tr></table>*Values of t must be to 2d.p.* *½ x 6 = 3marks*	3marks

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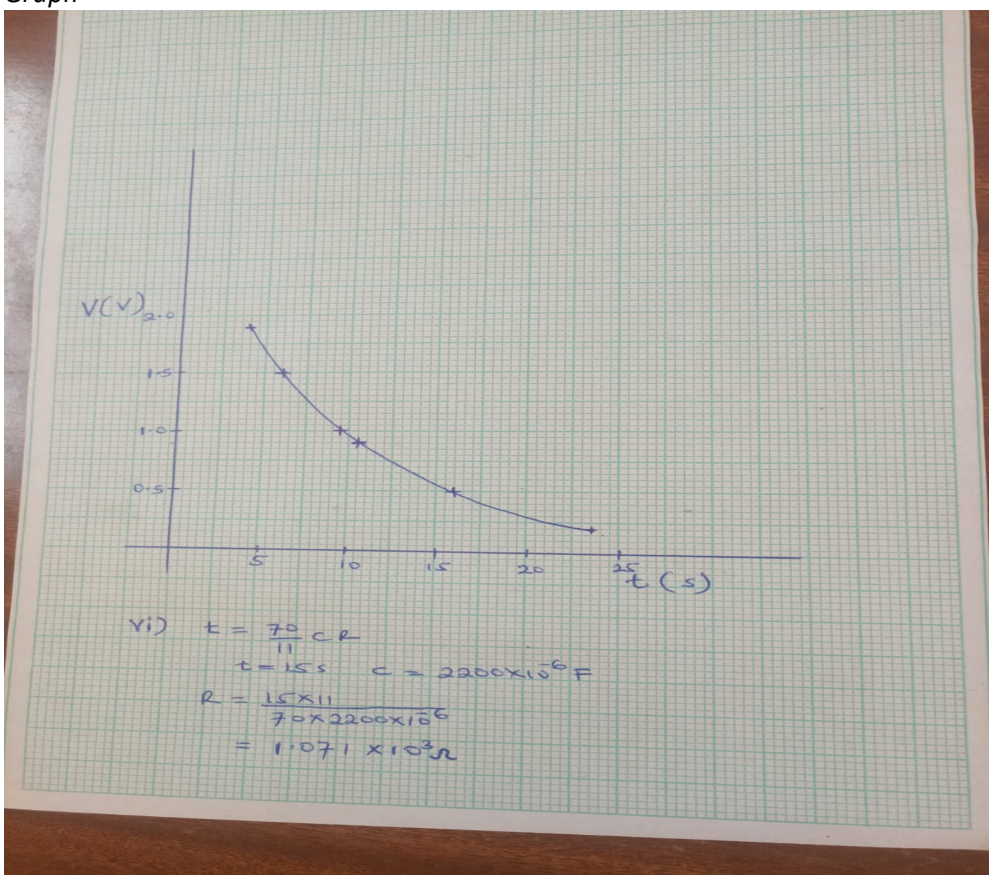
		(v)	*Graph*  *A=1* *S = 1* *P = 2* *C = 1*	
		(vi)	Above	3marks
QUESTION TWO				
	(a)	(i)	D = 2.94cm	½ mark
		(ii)	H = 1.80cm	½ mark
			V = AH	1mark
			Density = mass/volume	1mark
	(b)		G = 49.0 – 51.0 (must be to one decimal place)	1mark
	(c)		<table><tr><td>x(cm)</td><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td></tr><tr><td>d(cm)</td><td>4.3 4.7</td><td>7.0 11.0</td><td>11.5 15.5</td><td>16.0 20.0</td><td>20.5 24.5</td><td>25.0 29.0</td></tr></table> ½ x 6_{max}	3marks

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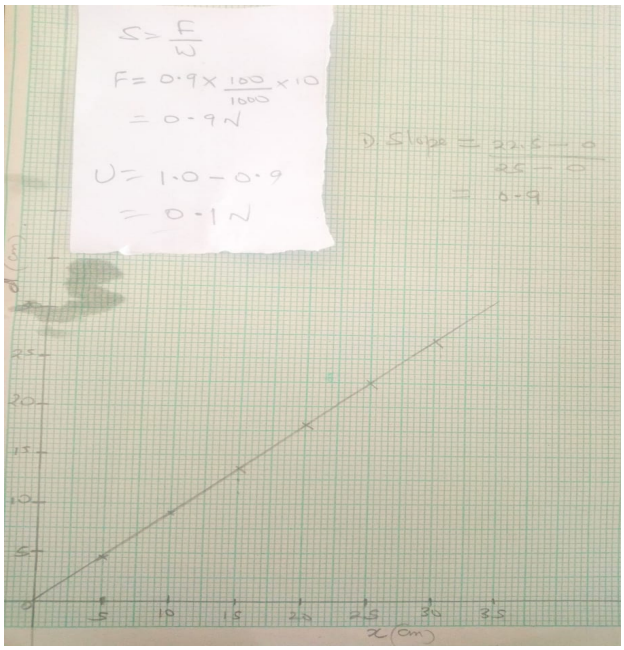
	(d)		*Graph*  	

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