තියලුම තිම්කම් ඇව්රිණි ] 🔘							
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	2023	் கல்விப் 🕼	பொதுத் தராது ertificate of Edu	ரப் பத்திர(உய ication (Adv. L	ர் தர)ப் பரீட்	2023 <b>අගෝස්තු</b> නෙ, 2023 ඉංසාග්ත ion, August 2023	
I	THEORY		ଭା	<b>තික විදහව</b> பளதிகவியல் /SİCS	I I	Advanced Level Physics Amith Pussella	
Multiple Choice Questions							
1.	In the expre	In the expression $x = at + bt^2$ , if x is measured by meters (m) and y by hours (h), units of b would be,					
	(1) m		(2) m	1h <sup>-1</sup>		$(3) \mathrm{mh}^{-2}$	
	(4) m <sup>2</sup> h		(5) m	hh <sup>2</sup>			
2.	sections of If there is (1) 1.3	no zero error in the 0 cm (2) 1.35	and the block.	(Only relevant 3 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	th of the wood (4) 1.50 cm		
	quantity wo (1) force.	ould be		pressure.		(5) velocity.	
4.	divisions, th	hen the least count o	of the instrumer	nt in main scale	e divisions is	s divided into <i>n</i> vernier scale (5) $\frac{1}{n-1}$	
5.	$F = c_1 a +$ The ratio $\frac{c_1}{c_2}$ (1) has the	$c_{2} \frac{\nu}{t}$ $c_{1} \frac{\nu}{z_{2}}$ e dimensions of accel e dimensions of work	eration.	(2) has the di	cceleration, a ve mensions of ma mensions of vel		

Figure shows the main scale, M, and the vernier scale, V, of a measuring instrument. 6. The least count of the instrument is (1) 0.05 mm ( (2) 0.10 mm (3) 0.15 mm (4) 0.20 mm (5) 0.25 mm 7. Extended Vernier scale of a Vernier caliper is made by dividing 39 main scale millimeter divisions into 20 Vernier divisions. Least count of this instrument is,  $(2) 0.02 \,\mathrm{mm}$ (3) 0.05 mm (1) 0.01 mm (4) 0.1 mm (5) **0.5** mm 8. Which of the following pairs of physical quantities have the same dimensions? (1) Work and power. (2) Stress and strain. (3) Young's modulus and pressure. (4) Coefficient of viscosity and surface tension. (5) Force and momentum. 9. The vernier scale of a measuring instrument consists of 50 divisions. If those 50 divisions coincide with 49 1/2 mm divisions of the main scale, least count of the measuring instrument would be, (1) 0.01 mm (2) 0.001 mm (3) 0.02 mm (5) 0.025 mm. (4) 0.002 mm 10. The total radius of a circular disc is 3r. The internal radius of the coloured portion is r while its external radius is 2r. Area of the coloured portion equals to, Total area of the disc (1)  $\frac{1}{3}$ (2)  $\frac{1}{9}$  $(3)\frac{1}{6}$  $(4) \frac{2}{9}$ (5)  $\frac{4}{9}$