ම්ලුකසි	ම හිමිකම් ඇවිර	රණ ]	All Rights Reserve	d] (C)						
RAM		R	HELORIT MEMORY	(REC	ALL AL	LMEMOR	RY)	2:		
2023 THEORY			අධ්පයන පොදු සහතික පතු (උසස් පෙළ) විභාගය , 2023 අගෝස්තු යබ්ඩා  பொதுத் தராதரப் பத்திர(உயர் தர)ப் பரீட்சை, 2023 ඉහා න General Certificate of Education (Adv. Level) Examination, August 2023							
			<mark>ஸேவி ව்දහව</mark> I பௌதிகவியல் I Physics I						Advanced Level Physics A mith Pussella	
Multiple Choice Questions										
1.	1. A thin disc has freedom to rotate around an axis passing through its centre O perpendicular to the plane of the disc. The disc is acted upon by five coplanar forces $(1 - 5)$ , equal in magnitude, as shown in the figure.									
	Consider the following statements made about the torques produced by the $0$ · $3$									
	<ul> <li>(A) Maximum torque is produced by the force 2.</li> <li>(B) Rotation of the disc due to the resultant torque will be in clockwise</li> </ul>									
	<ul><li>(C) When the magnitudes of the forces are doubled the magnitude of the torque will also be doubled.</li><li>Of the above statements</li></ul>									
(1) only (A) is true. (2) only (B) is true. (3) only (C) $(4)$ only (B) and (C) are true (5) all (A) (B) and (C) are true							(3) only (C) is true.			
					(5)	un (A), (D)		to true, "		
2.	2. Figures A and B show two ways in which a painter could use a system consisting (A) (B) of a platform P, a pulley and a rope in painting tall buildings. The total weight of the painter and the platform is 400 N. If the rope is light then the tensions of the									
	rope in	the two	cases are		÷	1	3		MIM	
		A	B		5		2			
20	(1) 4	100 N	400 N		t .		1. AN			
-	(2) 4	100 N	200 N							
	(3) 2	200 N	400 N		1					
1	(4) 2	200 N	200 N		1			- 1	70 10	
	(5) 1	00 N	200 N		1		1	2	St man St man	
		4			5			P	L'all L'all	
10				1						
3.	If $(n-1)$ divisions	) number , then th	of main scale the least count	division of the in	s of a c strument	ertain measu in main sc	uring instru ale division	ment is div is is	vided into <i>n</i> vernier scale	
	(1)		(2) $\frac{1}{n}$		(3)	$\frac{n}{n-1}$	(4)	$\frac{n-1}{n}$	(5) $\frac{1}{n-1}$	
4.	Three ma as shown mass 6 kg (1) 1- (3) 3 (5) 1	sses A, $1$ in the fig g, the ma $0 \text{ kg}$ ; $1 \cdot 0 \text{ kg}$ ; $1 \cdot 5 \text{ kg}$ ; $1 \cdot 1 \cdot 5 \text{ kg}$ ; $1 \cdot 5 \text{ kg}$ ;	B, and C are ha gure. Each cross asses of B and Okg Okg Okg	nging fro bar has n C respec	om horizo egligible tively are (2) 1 (4) 0	ntal crossbars mass. If A has 5 kg ; 0.5 kg 5 kg ; 1.5 kg	s 2222 5 → X → [A]		<u>y</u> <u>3y</u> <u>c</u>	

ADVANCED LEVEL PHYSICS - AMITH PUSSELLA

