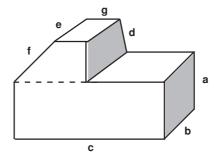
සියලුම හිමිකම් ඇවිරුණි ] (C)		
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THEORY	<b>භෞතික විදහව</b> I വെണ தி.சுவியல் I Physics I	Advanced Level Physics Amith Pussella
	Multiple Choice Questions	PHT <b>5872</b> 2023Th 2021-07-29
1. Out of the following, which	quantity doesn't have its dimension as L?	
(1) Thickness of a paper	(2) Wave length	(3) Radius of a sphere
(4) Extension of a spring	(5) Expansion of a liquid	
2. The Angel waterfall in Venisu waterfall in meters would be,	ula is the tallest waterfall in the world. If its	height is $9.79\mathrm{x}10^{5}\mathrm{mm}$ , the height of the
(1) 9790 (2) 9790	00 (3) 979 (4)	97.9 (5) 9.79
	titute from the Nugegoda junction is 750 m. T the Nugegoda junction is thrice as that of a l class is,	
(1) 250 m	(2) 500 m	(3) 300 m
(4) 600 m	(5) 450 m	
4. Three statements related to u	units are given below.	
(A) Only the units of fo	undamental quantities are written in capita	al letters of English alphabate.
(B) There are only thr	ee fundamental units.	
(C) Joule is the SI unit	used to measure energy.	
True of the above		
(1) Only (A)	(2) Only (B) and (C)	(3) Only (C)
(4) All of the above	(5) None of the above	
_	5 (3) 3.025	0 10 10 3cm 3.5cm

6. 7 measurements a,b,c,d,e,f,g of a small wooden block are need to be measured. Out them, those which could be measured with a Vernier caliper are,



(1) Only a, b, c and d

- (2) Only a, b, c, d and e.
- (3) Only a, b, c, d, e and g.

- (4) Only a, b, c, d and g.
- (5) All of them.
- A reading which cannot be obtained by a vernier caliper having a least count of 0.1mm is,
  - (1) 3.5 cm
- (2) 4.32 cm
- (3) 5.60 cm
- (4) 0.42 mm
- (5) 10.8 mm

- **l**8. In laboratory using a Vernier caliper,
  - (A) internal diameter of a rubber tube could be measured.
  - (B) thickness of a coin could be measured.
  - (C) diameter of a small glass sphere could be measured.

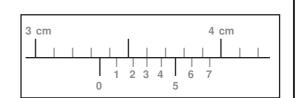
True of above,

(1) Only (A) and (B)

- (2) Only (B) and (C)
- (3) Only (B)

(4) All of the above

- (5) None of the above
- 9. The position of the scales of a vernier caliper in which 9 of the 1mm units of the main scale get coincided with 10 units of the vernier scale is given at the right. The minimum distance by which the vernier scale must be moved to the right in order to coincide the 5<sup>th</sup> division of the vernier scale with a division of the main scale is,



(1) 0.1 mm

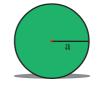
(2) 0.2 mm

(3) 0.3 mm

(4) 0.4 mm

 $(5) 0.5 \, \text{mm}$ 

10. A sphere and a cube which are made by the same material have the given measurements. The surface area and the volume of the cube respectively when those of the sphere are A and V are,





- (2)  $\frac{3A}{2\pi}$ ,  $\frac{3V}{4\pi}$  (3)  $\frac{3\pi}{2A}$ ,  $\frac{4\pi}{3V}$  (4) 2A,  $\frac{V}{3}$  (5)  $\frac{2A}{\pi}$ ,  $\frac{3V}{\pi}$