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(RECALL ALL MEMORY)

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THEORY

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கல்விப் பொதுத் தராதரப் பத்திர(உயர் தர)ப் பரீட்சை, 2023 ஓகஸ்தர்
General Certificate of Education (Adv. Level) Examination, August 2023

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பௌதிகவியல் I
Physics I

Advanced Level Physics
Amith Pussella

PHT5753 2023Th 2021-06-13

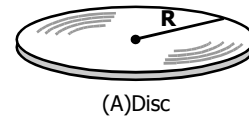
Multiple Choice Questions

- The SI unit of mass is,
(1) kg (2) g (3) mg (4) Metric ton (5) mg
- The force acting on an object is F. Now that force is increased by 10 %. Then the force acting on the object is,
(1) 0.1 F (2) 10 F (3) 110 F
(4) 0.2 F (5) 1.1 F

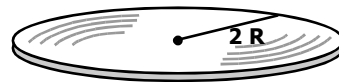
- There are two discs A & B with an equal thickness , but the density of A is twice that of B , while the radius of B is twice that of A.

$\frac{\text{Mass of disc A}}{\text{Mass of disc B}}$ would be equal to,

- 2 (2) $\frac{1}{2}$ (3) $\frac{1}{4}$
(4) 1 (5) 4



(A)Disc



(B)Disc

- Radius of a drop of mercury formed by the addition 1000 drops of equal radius r is,
(1) 1000 r (2) 100 r (3) 10 r
(4) $\sqrt{10}$ r (5) $\sqrt{1000}$ r
- $X = \sqrt{\frac{\pi d^2}{8 h}}$ When the d value in this equation doubled and h value is halved, what is the value obtained for x in terms of the previous x value?
(1) Twice. (2) Four times. (3) Eight times.
(4) $\sqrt{2}$ times. (5) $2\sqrt{2}$ times.
- When A and B are two physical quantities, their relationship is $A \times B = \text{constant}$. Here when the quantity B is increased by 25 %, then the quantity A will,
(1) Decreased by 25 % (2) Decreased by 20 % (3) Decreased by 75 %
(4) Decreased by 80 % (5) Not be changed.

