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

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பௌதிகவியல்
Physics

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Advanced Level Physics
Amith Pussella

PHT5801 2023Th 2021-07-03

Multiple Choice Questions

- In the expression $1 \text{ nm} = 10^{\square} \mu\text{m}$, the number that should be entered into the square would be,
(1) + 6 (2) + 3 (3) + 2 (4) - 3 (5) - 6
- When the two expressions $P + Q = 8$, $P^2 - Q^2 = 16$ are solved and values of P and Q are obtained, we get,
(1) P = 1 (2) P = 3 (3) P = 4 (4) P = 5 (5) P = 5
Q = 7 Q = 4 Q = 3 Q = 3 Q = 4
- The radius of a mercury drop is 2 cm. When it is scattered into eight equal drops, the radius of one small drop would be,
(1) 1 cm (2) $\frac{1}{4}$ cm (3) $\frac{1}{2}$ cm (4) $\frac{1}{8}$ cm (5) $\frac{3}{4}$ cm
- In the expression $V = \sqrt{\frac{T}{k}}$, V is velocity and T is tension. When those quantities are expressed in SI units, the SI unit of k would be,
(1) Nm s^{-2} (2) $\text{Nm}^2 \text{s}^{-1}$ (3) $\text{N s}^2 \text{m}^{-2}$ (4) $\text{N}^2 \text{m}^2 \text{s}^{-1}$ (5) $\text{N}^{1/2} \text{s m}^{-2}$
- When measuring the mass of a wire of length 40 cm, it is obtained as 120 mg. The mass of one meter of the wire in kg would be,
(1) 3×10^{-1} (2) 3×10^{-2} (3) 3×10^{-4} (4) 3×10^{-5} (5) 3×10^{-6}
- Quantity having units equal to that of work done is,
(1) Force x cross sectional area (2) Mass x acceleration
(3) $\frac{\text{Force}}{\text{Cross sectional area}}$ (4) Pressure x volume
(5) Pressure x cross sectional area

