Yakeen NEET 2.0 2026

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DPP: 7

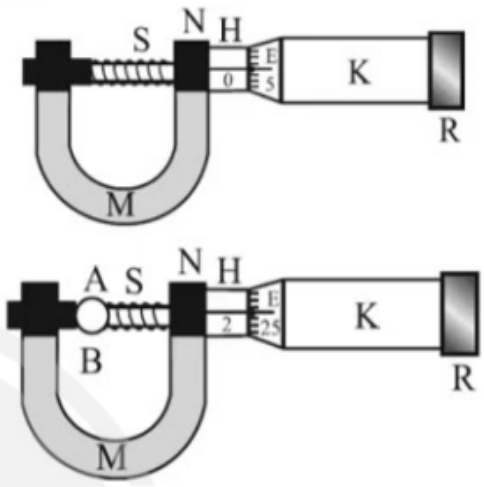
Units and Measurements

Q1 Erg $-\mathrm{m}^{-1}$ can be the unit of measure for
(A) Force (B) Momentum
(C) Power (D) Acceleration

Q2 A wave is represented by $\mathrm{y} = \mathrm{a}\sin(\mathrm{At} - \mathrm{Bx} + \mathrm{C})$ where $\mathrm{A}, \mathrm{B}, \mathrm{C}$ are constants and t is in seconds and x is in meter. The dimensions of $\mathrm{A}, \mathrm{B}, \mathrm{C}$ are
(A) $\mathrm{T}^{-1},\ \mathrm{L}, \mathrm{M}^0\ \mathrm{L}^0\ \mathrm{T}^0$
(B) $\mathrm{T}^{-1},\ \mathrm{L}^{-1}, \mathrm{M}^0\ \mathrm{L}^0\ \mathrm{T}^0$
(C) $\mathrm{T},\ \mathrm{L},\ \mathrm{M}$
(D) $\mathrm{T}^{-1},\ \mathrm{L}^{-1}, \mathrm{M}^{-1}$

Q3 Which of the following measurement is most precise?
(A) $5.00\ \mathrm{mm}$
(B) $5.00\ \mathrm{cm}$
(C) $5.00\ \mathrm{m}$
(D) $5.00\ \mathrm{km}$

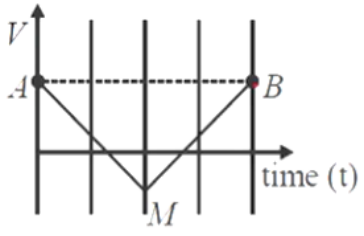
Q4 The circular scale of a screw gauge has 50 divisions and pitch of $0.5\ \mathrm{mm}$. Find the diameter of sphere. Main scale reading is 2 . One main scale division is $0.5\ \mathrm{mm}$.



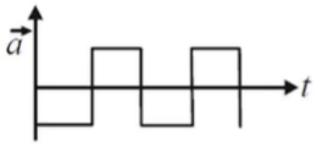
(A) $1.2\ \mathrm{mm}$
(B) $1.25\ \mathrm{mm}$
(C) $2.20\ \mathrm{mm}$
(D) $2.25\ \mathrm{mm}$

Q5 If unit of mass becomes 2 times, the unit of length becomes 4 times and the unit of time becomes 4 times in the unit of Planck's constant. Due to this unit, Planck's constant becomes n times. Find the value of n.
(A) 2 (B) 4
(C) 6 (D) 8

Q6 If the velocity-time graph has the shape AMB, what would be the shape of the corresponding acceleration-time graph?

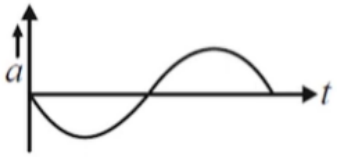


(A)

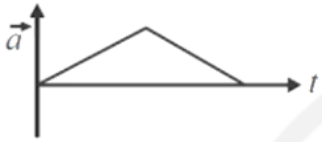


(B)

(C)



(D)



Q7 S.I. units of intensity of wave is

(A) J m^{-2} s^{-2}

(B) J m^{-2} s^{-1}

(C) W m^{-2} s^{-2}

(D) W m^{-2} s^{-1}

Q8 The ratio of the dimension of Planck's constant and that of moment of inertia is the dimension of:

(A) Frequency

(B) Velocity

(C) Angular momentum

(D) Time

Answer Key

Q1	(A)
Q2	(B)
Q3	(A)
Q4	(A)
Q5	(D)
Q6	(B)
Q7	(B)
Q8	(A)