

Yakeen NEET 2.0 2026

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Units and Measurements

DPP:10

- Q1** Time intervals measured by a clock give the following readings :
1.25sec, 1.24sec, 1.27sec, 1.21sec and 1.28sec. What is the percentage relative error of the observations?

(A) 2%
(B) 4%
(C) 16%
(D) 1.6%

- Q2** A physical quantity P is given by $P = \frac{A^3 B^{\frac{1}{2}}}{C^{-4} D^{\frac{3}{2}}}$.

The quantity which brings in the maximum percentage error in P is:

(A) A
(B) B
(C) C
(D) D

- Q3** If volume is written as, $V = KG^x c^y h^z$. Here, K is dimensionless constant and G, c, h are gravitational constant, speed of light and Planck's constant, respectively. Find the value of x/z .

(A) 1
(B) 2
(C) $\frac{3}{2}$
(D) 4

- Q4** During measurement of kinetic energy T , the percentage error in measurement of mass of particle and momentum of particle are 6% and 1% respectively. The percentage error in measurement of kinetic energy is $n\%$. Find the value of n .

(A) 6
(B) 7
(C) 8
(D) 4

- Q5** If v stands for velocity of sound, E is modulus of elasticity and d the density, then find x in the

$$\text{equation } v = \left(\frac{d}{E}\right)^x$$

(A) 2
(B) $-\frac{1}{2}$
(C) $\frac{1}{2}$
(D) 1

- Q6** Young's modulus of steel is $19 \times 10^{10} \text{ Nm}^{-2}$ its value dyne cm^{-2} is

(A) 19×10^{11}
(B) 19×10^{17}
(C) 19×10^{13}
(D) 19×10^{21}

- Q7** 1 Pascal = _____ C. G. S units
(or) $\text{gram cm}^{-1} \text{ s}^{-2}$

(A) 10
(B) $\frac{1}{10}$
(C) 100
(D) 1000

- Q8** The physical quantities not having same dimensions are

(A) Speed and $(\mu_0 \epsilon_0)^{-1/2}$
(B) Torque and work
(C) Momentum and Planck's constant
(D) Stress and Young's modulus

- Q9** If ' m ' is the mass of a body, ' a ' is amplitude of vibration, and ' ω ' is the angular frequency, $\frac{1}{2}ma^2\omega^2$ has same dimensional formula as

(A) Impulse
(B) Angular momentum
(C) Moment of inertia
(D) Moment of force

- Q10** If C is the capacitance of the capacitor, V is the potential difference, the energy stored in a capacitor is given by $E = \frac{1}{2}CV^2$. The power of time in dimension of CV^2 is:

(A) -2
(B) 2
(C) 1



(D) –1



Answer Key

Q1 (D)

Q2 (C)

Q3 (A)

Q4 (C)

Q5 (B)

Q6 (A)

Q7 (A)

Q8 (C)

Q9 (D)

Q10 (A)



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