Yakeen NEET 2.0 (2026)

Physics By Manish Raj Sir

Units and Measurements

DPP: 1

Q1 Which of following is a fundamental physical quantity?
(A) Angle (B) Charge
(C) Temperature (D) Force

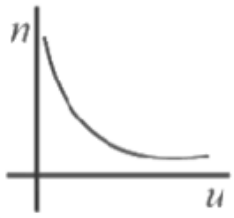
Q2 Which one of the following physical quantities is not a fundamental quantity?
(A) Luminous intensity
(B) Thermodynamic temperature
(C) Electric current
(D) Work

Q3 Which of the following group of physical quantity can be considered as a group of fundamental physical quantity?
(A) Mass, Momentum, Velocity
(B) Displacement, Time, Velocity
(C) Force, Mass, Acceleration
(D) Time, Force, Velocity

Q4 Which of the following sets cannot enter into the list of fundamental quantities in any system of units ?
(A) length, mass and velocity
(B) length, time and velocity
(C) mass, time and velocity
(D) length, time and mass

Q5 Velocity is a derived physical quantity which depends on _____ fundamental quantities.
(A) Zero (B) 1
(C) 2 (D) 4

Q6 Which of the following graph is correct: $n =$ magnitude of measurement & $u =$ unit of measurement.
(A)



(B)

(C)

(D) All of these

Q7 The unit of potential energy is
(A) $g\left(\mathrm{cm/sec^2}\right)$
(B) $g(\mathrm{cm/sec})^2$
(C) $g\left(\mathrm{cm^2/sec}\right)$
(D) $g(\mathrm{cm/sec})$

Q8 The dimensions of pressure are
(A) $\left[\mathrm{MLT^{-2}}\right]$
(B) $\left[ML^2T^2\right]$
(C) $\left[ML^{-1}T^{-2}\right]$

(D) $\left[MLT^2\right]$

Q9 Which one has the dimensions different from the remaining three ?

(A) Power (B) Work

(C) Torque (D) Energy

Q10 The dimensions of power are

(A) $M^1L^2T^{-3}$

(B) $M^2L^1T^{-2}$

(C) $M^1L^2T^{-1}$

(D) $M^1L^1T^{-2}$

Q11 Dimensional formula of velocity of sound is

(A) M^0LT^{-2}

(B) LT^0

(C) M^0LT^{-1}

(D) $M^0L^{-1}T^{-1}$

Q12 Dimensional formula for torque is

(A) ML^2T^{-2} (B) $ML^{-1}T^{-2}$

(C) ML^2T^{-3} (D) MLT^{-2}

Q13 The dimensional formula of focal length is

(A) $\left[M^0\,\mathrm{L}^1T^0\right]$

(B) $\left[MLT^{-2}\right]$

(C) $\left[ML^{-1}T^{-2}\right]$

(D) $\left[ML^{-2}T^{-2}\right]$

Q14 The dimensional formula for impulse is: (Impulse = mass × change in velocity)

(A) $\left[\mathrm{MLT}^{-1}\right]$

(B) $\left[\mathrm{ML}^2\,\mathrm{T}^{-1}\right]$

(C) $\left[\mathrm{ML}^2\,\mathrm{T}^{-2}\right]$

(D) $\left[\mathrm{ML}^0\,\mathrm{T}^{-1}\right]$

Answer Key

Q1	(C)
Q2	(D)
Q3	(D)
Q4	(B)
Q5	(C)
Q6	(D)
Q7	(B)
Q8	(C)
Q9	(A)
Q10	(A)
Q11	(C)
Q12	(A)
Q13	(A)
Q14	(A)