ARJUNA (NEET)

Units and Mesurements

P XI M1 Pg11

DPP-02

1. The dimensional formula of torque is
(A) $[ML^2T^{-2}]$ (B) $[MLT^{-2}]$
(C) $[ML^{-1}T^{-2}]$ (D) $[ML^{-2}T^{-2}]$

2. If C and R denote capacitance and resistance, the dimensional formula of CR is
(A) $[M^0L^0T^1]$
(B) $[M^0L^0T^0]$
(C) $[M^0L^0T^{-1}]$
(D) not expressible in terms of MLT.

3. The dimensional formula of angular momentum is
(A) $[ML^2T^{-2}]$ (B) $[ML^{-2}T^{-1}]$
(C) $[MLT^{-1}]$ (D) $[ML^2T^{-1}]$

4. Dimensions of stress are
(A) $[MLT^{-2}]$ (B) $[ML^2T^{-2}]$
(C) $[ML^0T^{-2}]$ (D) $[ML^{-1}T^{-2}]$

5. The pair of quantities having same dimensions is
(A) Impulse and Surface Tension
(B) Angular momentum and Work
(C) Work and Torque
(D) Young's modulus and Energy

6. Select the pair whose dimensions are same
(A) Pressure and stress
(B) Stress an strain
(C) Pressure and force
(D) Power and force

7. $[M^{-1}L^3T^{-2}]$ is the dimensional formula of:
(A) Gravitational constant
(B) Planck's constant
(C) Surface tension
(D) Modulus of rigidity

8. Dimensional formula $[ML^{-1}T^{-2}]$ does not represent the physical quantity
(A) Young's modulus of elasticity
(B) stress
(C) Strain
(D) Pressure

9. Which of the following is not a dimensionless physical quantity?
(A) coefficient of friction
(B) strain
(C) Stress
(D) Ratio of wavelength of two wave

10. Which of the following is dimension less physical quantity?
(A) Refractive index
(B) Poisson ratio Pg 12
(C) Intensity of light
(D) Energy density

11. Which of the following have unit but does not have dimension?
(A) Strain (B) Speed of Ramlal Pg 12
(C) Angle (D) Height of Kallu.

ANSWERS

1. **(A)**
2. **(C)**
3. **(D)**
4. **(D)**
5. **(C)**
6. **(A)**
7. **(A)**
8. **(C)**
9. **(C)**
10. **(A)**
11. **(C)**

Note - If you have any query/issue

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