

Yakeen NEET 2.0 2026

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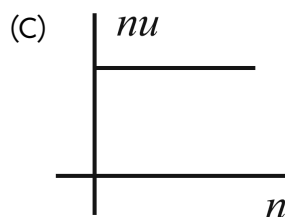
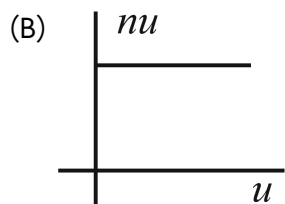
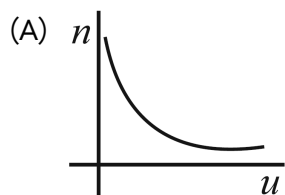
DPP: 1

Units and Measurements

Q1 Velocity is a derived physical quantity which depends on _____ fundamental quantities.

- (A) zero (B) 1
(C) 2 (D) 4

Q2 Which of the following graph is correct
 n = magnitude of measurement & u = unit of measurement.



(D) All of these

Q3 Two physical quantities A and B have different dimension. Which mathematical operation given below is physically meaningful?

- (A) $A \cdot B$
(B) $A + B$
(C) $A - B$
(D) None of these

Q4 Which of the following combinations of three dimensionally different physical quantities P, Q, R can never be a meaningful quantity?

- (A) $PQ - R$
(B) $\frac{PQ}{R}$
(C) $\frac{P-Q}{R}$
(D) $\frac{PR-Q^2}{QR}$

Q5 If P and Q have different non-zero dimensions. which of the following operation is possible:

- (A) $P^2 + Q^2$
(B) PQ^2
(C) $P^2 - Q^2$
(D) All of these

Q6 Calculate the dimensional formula of energy from the equation $E = \frac{1}{2}mv^2$

- (A) $[M^0 L^2 T^2]$
(B) $[M^1 L^2 T^{-2}]$
(C) $[M^0 L^2 T^{-2}]$
(D) $[M^0 L^{-2} T^{-2}]$

Q7 Choose the wrong statement:

- (A) A dimensionally correct equation may be correct
(B) A dimensionally incorrect equation must be incorrect
(C) A dimensionally correct equation may be incorrect
(D) A dimensionally incorrect equation may be correct



- Q8** $\text{Kg} - \text{m/s}$ is a unit of
(A) Energy (B) Momentum
(C) Force (D) Pressure
- Q9** Density of wood is 0.5gm/cc in the CGS system of units. The corresponding value in MKS units is:
(A) 500 (B) 5
(C) 0.5 (D) 5000
- Q10** Which of the following is a derived unit?
(A) Unit of mass
(B) Unit of area
(C) Unit of time
(D) Unit of current



Answer Key

Q1 (C)

Q2 (D)

Q3 (A)

Q4 (C)

Q5 (B)

Q6 (B)

Q7 (D)

Q8 (B)

Q9 (A)

Q10 (B)



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