

**JEE Main 2019 Physics Paper With Solutions
January 11 Shift 1**

1. The force of interaction between two atoms is given by $F = \alpha\beta e^{\left[\frac{-x^2}{\alpha kT}\right]}$; where x is the distance, k is the Boltzmann constant and T is temperature α and β are two constants. The dimension of β is:

- a. $M^2L^2T^{-2}$
- b. M^2LT^{-4}
- c. $M^0L^2T^{-4}$
- d. MLT^{-2}

Answer: (b)

Solution

$$F = \alpha\beta e^{\frac{-x^2}{\alpha kT}}$$

$$\left[\frac{x^2}{\alpha kT}\right] = M^0 L^0 T^0$$

$$\left[\frac{L^2}{\alpha M L^2 T^{-2}}\right] = M^0 L^0 T^0$$

$$[\alpha] = M^{-1} T^2$$

$$[F] = [\alpha] [\beta]$$

$$[MLT^{-2}] = M^{-1} T^2 [\beta]$$

$$[\beta] = M^2 LT^{-4}$$

2. A particle is moving along a circular path with a constant speed of 10 ms^{-1} . What is the magnitude of the change in velocity of the particle, when it moves through an angle of 60° around the centre of the circle?

- a. zero
- b. 10 m/s
- c. $10\sqrt{3} \text{ m/s}$
- d. $10\sqrt{2} \text{ m/s}$

Answer: (b)

Solution

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