

(v) The root mean square speed of the molecules of a gas is proportional to _____.

[T = Absolute temperature of gas]

(a) $\sqrt{T}$

(b) $\frac{1}{\sqrt{T}}$

(c) T

(d) $\frac{1}{T}$

(vi) The unit Wbm^{-2} is equal to _____.

(a) henry

(b) watt

(c) dyne

(d) tesla

(vii) When the bob performs a vertical circular motion and the string rotates in a vertical plane, the difference in the tension in the string at horizontal position and uppermost position is _____.

(a) mg

(b) 2 mg

(c) 3 mg

(d) 6 mg

(viii) A liquid rises in glass capillary tube upto a height of 2.5 cm at room temperature. If another glass capillary tube having radius half that of the earlier tube is immersed in the same liquid, the rise of liquid in it will be _____.

(a) 1.25 cm

(b) 2.5 cm

(c) 5 cm

(d) 10 cm

(ix) In young's double slit experiment the two coherent sources have different amplitudes. If the ratio of maximum intensity to minimum intensity is 16:1, then the ratio of amplitudes of the two source will be _____.

(a) 4 : 1

(b) 5 : 3

(c) 1 : 4

(d) 1 : 16

(x) The equation of a simple harmonic progressive wave travelling on a string is $y = 8 \sin (0.02 x - 4t)$ cm. The speed of the wave is _____.

(a) 10 cm/s

(b) 20 cm/s

(c) 100 cm/s

(d) 200 cm/s

Hsc 2012 Physics Paper Question

Wolfgang Schlegel, Thomas Bortfeld

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