

- 9 An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^5 \text{ N C}^{-1}$. It experiences a torque equal to 4 N m . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .

(1) 2 mC (2) 8 mC
(3) 6 mC (4) 4 mC

- 10 Let a wire be suspended from the ceiling (rigid support) and stretched by a weight W attached at its free end. The longitudinal stress at any point of cross-sectional area A of the wire is :

(1) Zero (2) $2W/A$
(3) W/A (4) $W/2A$

- 11 In hydrogen spectrum, the shortest wavelength in the Balmer series is λ . The shortest wavelength in the Brackett series is :

(1) 16λ (2) 2λ
(3) 4λ (4) 9λ

- 12 The temperature of a gas is -50°C . To what temperature the gas should be heated so that the rms speed is increased by 3 times?

(1) 223 K (2) 669°C
(3) 3295°C (4) 3097 K

- 13 A football player is moving southward and suddenly turns eastward with the same speed to avoid an opponent. The force that acts on the player while turning is :

(1) along south-west
(2) along eastward
(3) along northward
(4) along north-east

G6_English I

- 14 The ratio of frequencies of fundamental harmonic produced by an open pipe to that of closed pipe having the same length is :

(1) $3:1$ (2) $1:2$
(3) $2:1$ (4) $1:3$

- 15 The angular acceleration of a body, moving along the circumference of a circle, is :

(1) along the axis of rotation
(2) along the radius, away from centre
(3) along the radius towards the centre
(4) along the tangent to its position

- 16 Given below are two statements:

Statement I : Photovoltaic devices can convert optical radiation into electricity.

Statement II : Zener diode is designed to operate under reverse bias in breakdown region.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Statement I is incorrect but Statement II is correct.

(2) Both Statement I and Statement II are correct.

(3) Both Statement I and Statement II are incorrect.

(4) Statement I is correct but Statement II is incorrect.

- 17 If $\oint \vec{E} \cdot d\vec{S} = 0$ over a surface, then :

(1) the electric field inside the surface necessarily uniform.

(2) the number of flux lines entering the surface must be equal to the number of flux lines leaving it.

(3) the magnitude of electric field on the surface is constant.

(4) all the charges must necessarily be inside the surface.

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