

6. The angular speed of a motor wheel is increased from 1200 rpm to 3120 rpm in 16 seconds. The angular acceleration of the motor wheel is

- 1) $6\pi \text{ rad/s}^2$ 2) $8\pi \text{ rad/s}^2$
3) $2\pi \text{ rad/s}^2$ 4) $4\pi \text{ rad/s}^2$

Ans. 4

Sol. $\alpha = \frac{\omega_2 - \omega_1}{t} = \frac{2\pi n_2 - 2\pi n_1}{t}$

7. Four charges $+a$, $+2q$, $+q$ and $-2q$ are placed at the corners of a square ABCD respectively. The force on a unit positive charge kept at the centre 'O' is

- 1) Along the diagonal AC
2) Perpendicular to AD
3) Zero
4) Along the diagonal BD

Ans. 4

Sol. Conceptual

8. An electric dipole with dipole moment $4 \times 10^{-30} \text{ C m}$ is aligned at 30° with the direction of a uniform electric field of magnitude $5 \times 10^4 \text{ NC}^{-1}$, the magnitude of the torque acting on the dipole is

- 1) 10^{-3} Nm 2) $10 \times 10^{-3} \text{ Nm}$
3) 10^{-4} Nm 4) $\sqrt{3} \times 10^{-4} \text{ Nm}$

Ans. 3

Sol. $\tau = P.E. \sin \theta$

9. A charged particle of mass 'm' and charge 'q' is released from rest in an uniform electric field \vec{E} . Neglecting the effect of gravity, the kinetic energy of the charged particle after 't' seconds is

- 1) $\frac{Eqm}{t}$ 2) $\frac{E^2 q^2 t^2}{2m}$ 3) $\frac{2E^2 t^2}{mq}$ 4) $\frac{E^2 q^2 m}{2t^2}$

Ans. 2

Sol. $K.E = \frac{1}{2} mv^2$

$$= \frac{1}{2} m \left(0 + \frac{Eq}{m} t \right)^2$$

10. The electric field and the potential of an electric dipole vary with distance r as

- 1) $\frac{1}{r^2}$ and $\frac{1}{r^2}$ 2) $\frac{1}{r^2}$ and $\frac{1}{r}$
3) $\frac{1}{r}$ and $\frac{1}{r^2}$ 4) $\frac{1}{r^2}$ and $\frac{1}{r}$

Ans. 2

Sol. $E = K \frac{2p}{r^3} \propto \frac{1}{r^3}$

$$V = K \frac{p \cos \theta}{r^2} \propto \frac{1}{r^2}$$

11. The displacement of a particle executing SHM is given by $X = 3 \sin \left[2\pi t + \frac{\pi}{4} \right]$ where 'x' is in meters and 't' is in seconds. The amplitude and maximum speed of the particle is

- 1) $3\text{m}, 6\pi \text{ ms}^{-1}$ 2) $3\text{m}, 8\pi \text{ ms}^{-1}$
3) $3\text{m}, 2\pi \text{ ms}^{-1}$ 4) $3\text{m}, 4\pi \text{ ms}^{-1}$

Ans. 1

Sol. $A = 3\text{m}$

$$V_{\text{max}} = A\omega = 3 \times 2\pi = 6\pi$$

12. Electric as well as gravitational affects can be thought to be caused by fields. Which of the following is true for an electrical or gravitational field?

- 1) Fields are useful for understanding forces acting through a distance
2) There is no way to verify the existence of a force field since it is just a concept
3) The field concept is often used to describe contact forces
4) Gravitational or Electric fields does not exist in the space around an object

Ans. 1

Sol. Conceptual

13. A charged particle is moving in an electric field of $3 \times 10^{-22} \text{ Vm}^{-1}$ with mobility $2.5 \times 10^{-6} \text{ m}^2/\text{Vs}$, its drift velocity is

- 1) $2.5 \times 10^4 \text{ m/s}$ 2) $1.2 \times 10^{-4} \text{ m/s}$
3) $7.5 \times 10^{-4} \text{ m/s}$ 4) $8.33 \times 10^{-4} \text{ m/s}$

Ans. 3

Sol. $\mu = \frac{V_d}{E} \Rightarrow V_d = \mu E$

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