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[Aims Mbbs Entrance Exam Question Papers](#)

1. N molecules each of mass m and v velocity collides with a wall of a container and then absorbed, the pressure applied on the wall is :

- (1) mNV^2 (2) $\frac{mNV^2}{3}$ (3) $2 mNV^2$ (4) $\frac{mNV^2}{2}$

2. The law of far a day is obtained by conservation of :

- (1) Charge (2) Energy (3) Energy and magnetic field (4) Magnetic field

3. There is a q charge placed in the centre of a cube, then the emergent flux is :

- (1) $\frac{q}{6\epsilon_0}$ (2) $\frac{q}{8\epsilon_0}$ (3) $\frac{q}{2\epsilon_0}$ (4) $\frac{q}{\epsilon_0}$

4. Two thin lenses are put close to each other, focal length of the combination is :

- (1) less than the small focal length
 (2) more than the bigger focal length
 (3) equal to the arithmetical average of the focal length
 (4) equal to the geometrical average of the focal length

5. A car is moving on a horizontal circular path with 10 m/s constant speed. A rigid body is suspended from ceiling of car with a 1 m . long light rod, the angle between rod and path is :

- (1) 60° (2) 45° (3) 30° (4) zero

6. Two sources of E_1 and E_2 emf r_1 and r_2 internal, resistances, are connected in the parallel combination, the emf of the combination is :

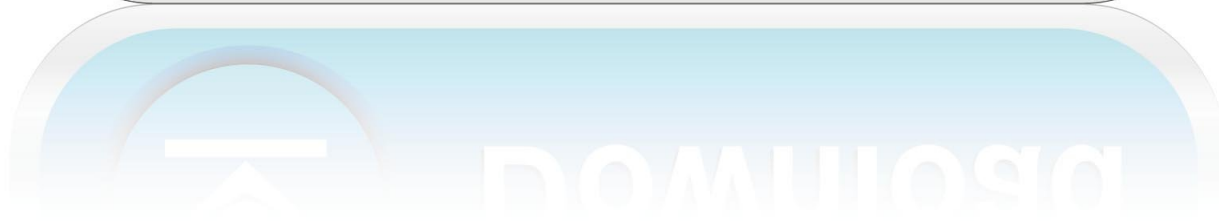
- (1) $\frac{E_1 E_2}{E_1 + E_2}$ (2) $\frac{E_2 r_1 + E_1 r_2}{r_1 + r_2}$ (3) $\frac{E_1 r_1 + E_2 r_2}{r_1 + r_2}$ (4) $\frac{E_1 + E_2}{2}$

7. In a AC circuit $R = 0 \Omega$, $X_L = 8\Omega$ and $X_C = 6\Omega$ phase difference between voltage and current is :

- (1) 11° (2) 45° (3) 37° (4) 12°

8. Relative permeability of a medium is μ_r and relative permittivity is ϵ_r then the velocity of an electro magnetic wave is :

- (1) c (2) $\frac{\sqrt{\epsilon_r \mu_r}}{\epsilon_0 \mu_0}$ (3) $\frac{\sqrt{\mu_0 \epsilon_0}}{\mu_r \epsilon_r}$ (4) $\frac{1}{\mu_r \epsilon_r}$



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