

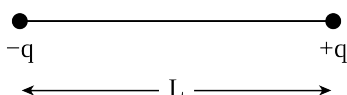
NEET ELECTRIC CHARGES AND FIELDS — ELECTRIC DIPOLE: FIELD ON AXIS AND EQUATOR — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

- Q.1** Two point charges $-q$ and $+q$ are placed at a distance of L , as shown in the figure.



The magnitude of electric field intensity at a distance R ($R \gg L$) varies as: [NEET (UG) 2022]

- (1) $\frac{1}{R^2}$ (2) $\frac{1}{R^3}$ (3) $\frac{1}{R^4}$ (4) $\frac{1}{R^6}$

Scan or tap for the full solution



- Q.2** Three point charges $+q$, $-2q$ and $+q$ are placed at points $(x = 0, y = a, z = 0)$, $(x = 0, y = 0, z = 0)$ and $(x = a, y = 0, z = 0)$ respectively. The magnitude and direction of the electric dipole moment vector of this charge assembly are [AIPMT 2007]

- (1) $\sqrt{2}qa$
 along the line joining points $(x = 0, y = 0, z = 0)$
 and $(x = a, y = a, z = 0)$
 (2) qa along the line joining points $(x = 0, y = 0, z = 0)$
 and $(x = a, y = a, z = 0)$
 (3) $\sqrt{2}qa$ along $+x$ direction
 (4) $\sqrt{2}qa$ along $+y$ direction

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2								
Ans.	2	1								