

**JEE MAIN ELECTRIC CHARGES AND FIELDS — ELECTRIC FIELD AND
ELECTRIC FIELD LINES — PYQS**

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 Identify the **correct** statements :

Choose the **correct** answer from the options given below :

- A. Electrostatic field lines form closed loops.
- B. The electric field lines point radially outward when charge is greater than zero.
- C. Gauss's law is valid only for inverse-square force.
- D. The work done in moving a charged particle in a static electric field around a closed path is zero.
- E. The motion of a particle under Coulomb's force must take place in a plane.

[JEE Main 2026 (Online) 28th January Evening Shift]

- (1) A, C, E Only (2) A, B, D, E Only
(3) B, C, D, E Only (4) A, B, C, D Only

Scan or tap for the full solution



Q.2 A simple pendulum has a bob with mass m and charge q . The pendulum string has negligible mass. When a uniform and horizontal electric field $\vec{E}$ is applied, the tension in the string changes. The final tension in the string, when pendulum attains an equilibrium position is _____.

[JEE Main 2026 (Online) 22nd January Morning Shift]

- (1) $mg - qE$ (2) $\sqrt{m^2g^2 + q^2E^2}$
(3) $mg + qE$ (4) $\sqrt{m^2g^2 - q^2E^2}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2								
Ans.	3	2								