

# PYQSide

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

Max. Marks: 8

Questions: 2

### Section A (MCQ)

- 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 |  |  |  |  |  |  |  |  |  |