

**JEE MAIN ELECTROSTATIC POTENTIAL AND CAPACITANCE —
POTENTIAL ENERGY IN AN EXTERNAL FIELD (DIPOLE) — PYQS**

Max. Marks: 4

Questions: 1

Section B (Numerical) — 1 question

- Q.1** An electric dipole of dipole moment $6 \times 10^{-6} \text{ C m}$ is placed in uniform electric field of magnitude 10^6 V/m . Initially, the dipole moment is parallel to electric field. The work that needs to be done on the dipole to make its dipole moment opposite to the field, will be _____ J.

[JEE Main 2025 (Online) 28th January Evening Shift]

Scan or tap for the
full solution**ANSWER KEY**

Ques.	1												
Ans.	12												