

NEET ELECTROSTATIC POTENTIAL AND CAPACITANCE — EQUIPOTENTIAL SURFACES — PYQS

Max. Marks: 12

Questions: 3

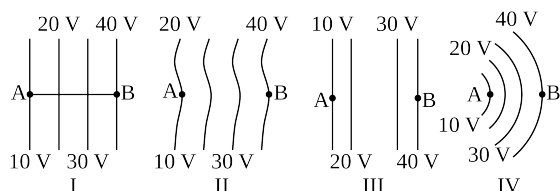
Section A (MCQ) — 3 questions

- Q.1** The angle between the electric lines of force and the equipotential surface is [NEET (UG) 2022]
 (1) 0° (2) 45° (3) 90° (4) 180°

Scan or tap for the full solution



- Q.2** The diagrams below show regions of equipotentials.



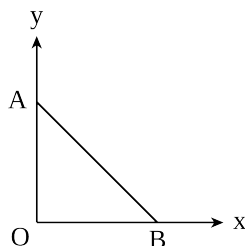
A positive charge is moved from A to B in each diagram. [NEET 2017]

- (1) In all the four cases the work done is the same.
 (2) Minimum work is required to move q in figure (I).
 (3) Maximum work is required to move q in figure (II).
 (4) Maximum work is required to move q in figure (III)

Scan or tap for the full solution



- Q.3** As per the diagram a point charge $+q$ is placed at the origin O. Work done in taking another point charge $-Q$ from the point A [coordinates (0, a)] to another point B [coordinates (a, 0)] along the straight path AB is [AIPMT 2005]



- (1) zero (2) $\left(\frac{qQ}{4\pi\epsilon_0 a^2}\right) \cdot \sqrt{2}a$
 (3) $\left(\frac{-qQ}{4\pi\epsilon_0 a^2}\right) \cdot \sqrt{2}a$ (4) $\left(\frac{qQ}{4\pi\epsilon_0 a^2}\right) \cdot \frac{a}{\sqrt{2}}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	3	1	1								