

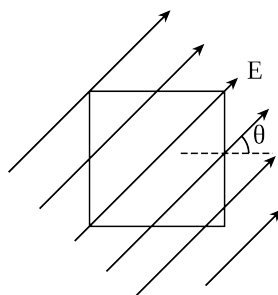
NEET ELECTRIC CHARGES AND FIELDS — ELECTRIC FLUX — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

- Q.1** A square surface of side L meter in the plane of the paper is placed in a uniform electric field E (volt/m) acting along the same plane at an angle θ with the horizontal side of the square as shown in figure.



The electric flux linked to the surface, in units of volt m is

[AIPMT 2010 (Prelims)]

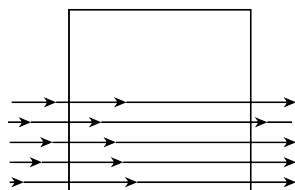
- (1) EL^2 (2) $EL^2 \cos \theta$
 (3) $EL^2 \sin \theta$ (4) zero

Scan or tap for the
full solution



- Q.2** A square surface of side L metres is in the plane of the paper. A uniform electric field $\vec{E}$ (volt/m), also in the plane of the paper is limited only to the lower half of the square surface (see figure). The electric flux in SI units associated with the surface is

[AIPMT 2006]



- (1) EL^2 (2) $EL^2/2\epsilon_0$ (3) $EL^2/2$ (4) zero

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2										
Ans.	4	4										