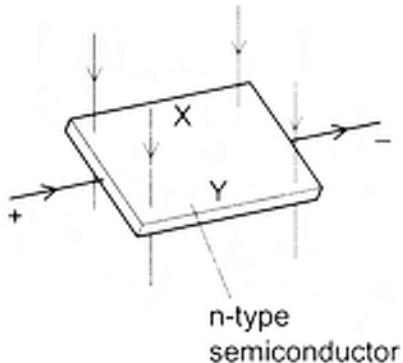


- 38 A thin slab of n-type semiconductor is connected at its ends to a battery causing a current through it.



A uniform magnetic field is applied vertically downwards over the surface of the slab causing an electric field between sides X and Y of the slab.

Which row correctly describes the majority carriers of the electric current in the slab and the direction of the induced electric field?

	majority carriers	electric field direction
A	conduction electrons	from X to Y
B	conduction electrons	from Y to X
C	holes	from X to Y
D	holes	from Y to X