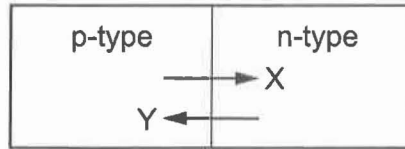


**38** The diagram shows a p-n junction with two directions X and Y labelled.



In which direction do electrons move during the formation of a depletion region, and in which direction do holes move during easy flow of charge?

|          | formation of depletion region | direction of movement during easy flow of charge |
|----------|-------------------------------|--|
| <b>A</b> | X                             | X  |
| <b>B</b> | X                             | Y  |
| <b>C</b> | Y                             | X  |
| <b>D</b> | Y                             | Y  |