

37 Which statement about conduction of electricity in solids is correct?

- A Free electrons are found both in the conduction band and in the valence band.
- B In a metal, there is a large energy gap between the conduction and valence bands.
- C The presence of impurities in an intrinsic semiconductor is used to increase its resistance.
- D In an intrinsic semiconductor, electrons travel in the opposite direction to holes.

38 The diagram illustrates the upper energy bands in two different classes of solid at absolute zero.