Semiconductor - Semiconductor objective questions and answers

1. Intrinsic semiconductors are those

A. Which are made of semiconductor material in its purest form
B. Which have zero energy gap
C. Which have more electrons than holes
D. Which are available locally

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A.Which are made of semiconductor material in its purest form

Your Comments

2. Intrinsic semiconductor at room temperature will have, ... available for conduction

A. Electrons
B. Holes
C. Both electrons and holes
D. None of the above

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C.Both electrons and holes

Your Comments

3. A pure semiconductor behaves like an insulator at 0^0 K because

A. There is no recombination of electrons with holes
B. Drift velocity of free electrons is very small
C. Free electrons are not available for current conduction
D. Energy possessed by electrons at that low temperature is almost zero

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C.Free electrons are not available for current conduction

Your Comments

4. Which of the following is a semi-conductor

A. Diamond
B. Arsenic
C. Phosphorous

D. Gallium arsenide

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D.Gallium arsenide

✍ Your Comments

5. The energy gap is much more in silicon than in germanium because

A. It has less number of electrons
B. It has high atomic mass number
C. Its crystal has much stronger bonds called ionic bonds
D. Its valence electrons are more tightly bound to their parent nuclii

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D.Its valence electrons are more tightly bound to their parent nuclii