Quiz 3

Name:

Registration Number:

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| 1. | Design an energy band diagram using the following information:  A semiconductor is doped so that it’s fermi level has moved up to Conduction band making the energy gap between fermi level and Conduction Band to 0.5 eV. Consider the temperature was 270 Celcius.  a. Determine the doping concentration.  b. Determine what type of extrinsic does the semiconductor become after doping. | 7+3 |