

Electronic Circuits – Assignment

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#	Student ID	Student Name	Grade (10)
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Delivery Date	
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1. يتم تسليم التمرين محلولا في خلال أسبوع من تاريخ التمرين، و يتم حذف درجتين من التمرين عن كل أسبوع تأخير
2. يتم التسليم لمعيد المقرر مباشرة
3. تتم أجابه التمرين في نفس ورق الأسئلة



#	Question	Answer
1	17. In an intrinsic semiconductor, (a) there are no free electrons (b) the free electrons are thermally produced (c) there are only holes (d) there are as many electrons as there are holes (e) answers (b) and (d)	
2	The process of adding an impurity to an intrinsic semiconductor is called (a) doping (b) recombination (c) atomic modification (d) ionization	
3	The majority carriers in an <i>n</i> -type semiconductor are (a) holes (b) valence electrons (c) conduction electrons (d) protons	
4	The minority carriers in an <i>n</i> -type semiconductor are (a) holes (b) valence electrons (c) conduction electrons (d) protons	
5	A <i>pn</i> junction is formed by (a) the recombination of electrons and holes (b) ionization (c) the boundary of a <i>p</i> -type and an <i>n</i> -type material (d) the collision of a proton and a neutron	

Q6	How is the electric field across the <i>pn</i> junction created?
Sol 6	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>