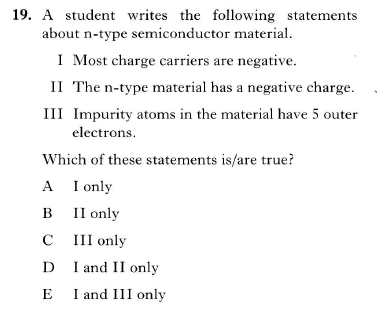
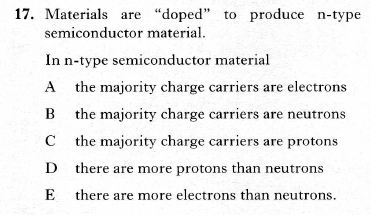
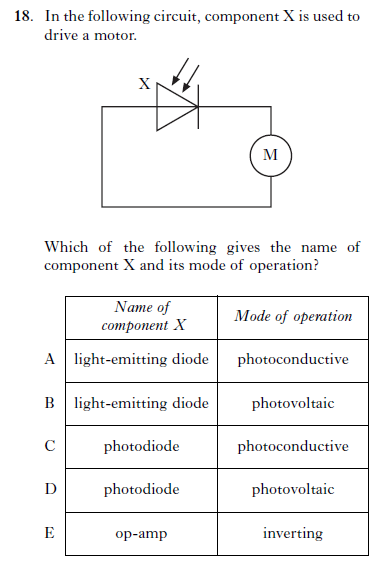
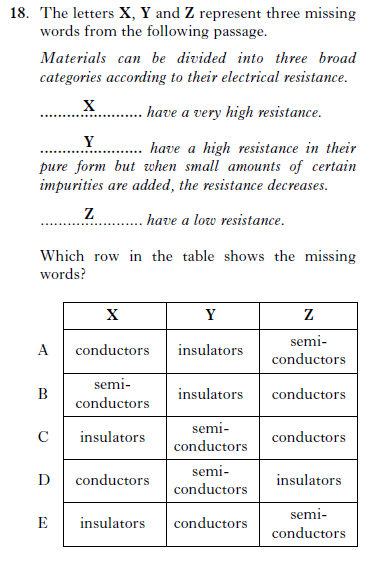
**Exercise 14 – Electrons at Work**

Past Paper Homework Questions



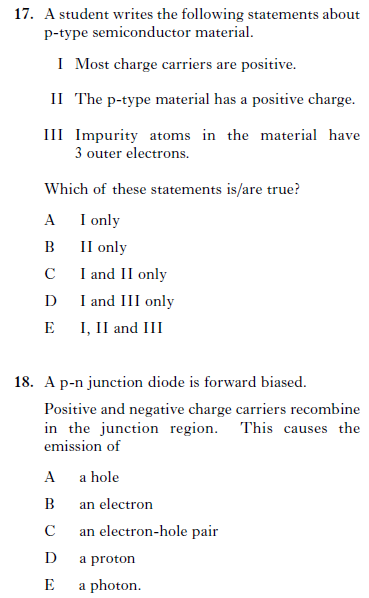
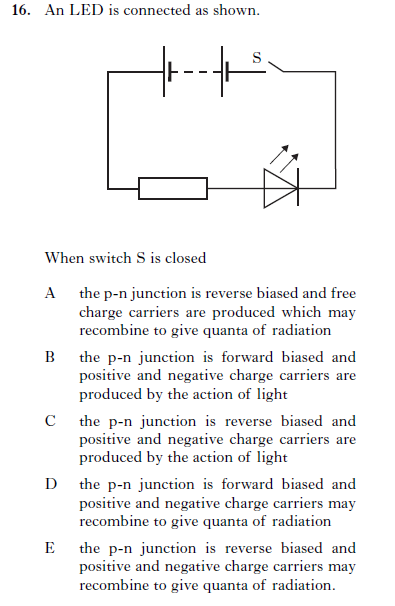
3.

1.



4.

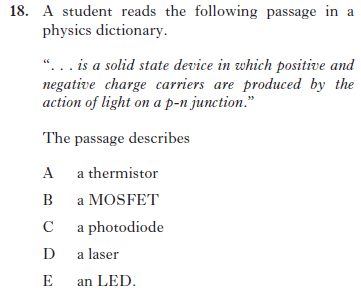
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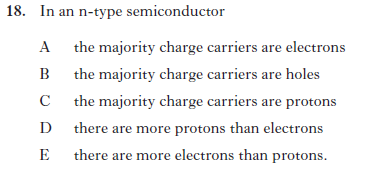
8.

6.

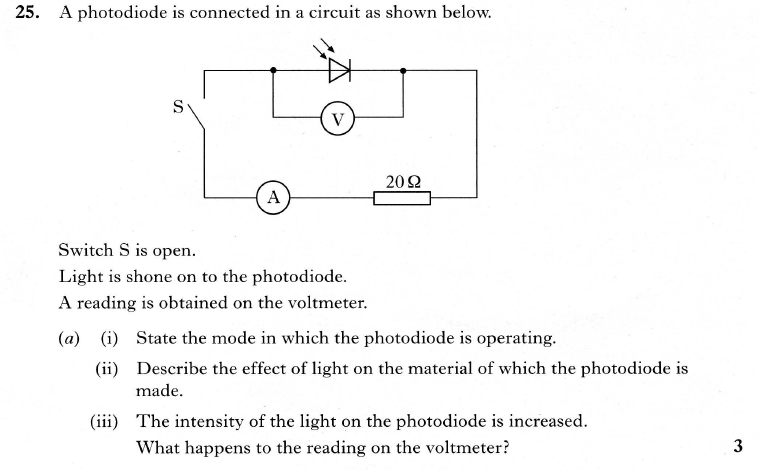
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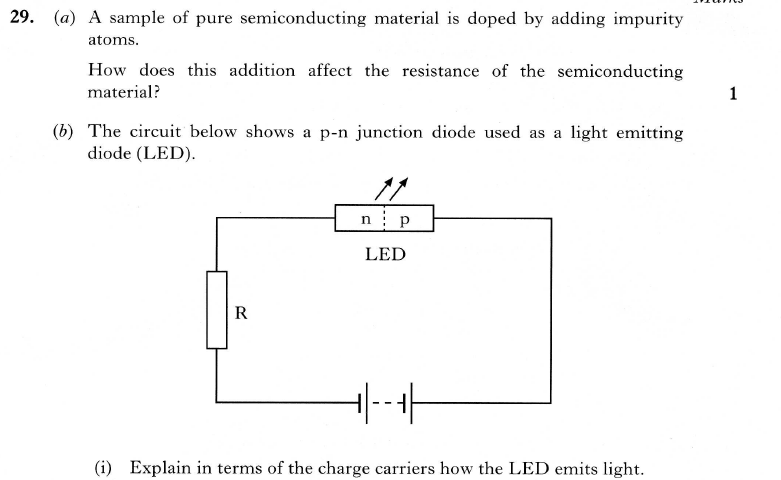
9.



7.



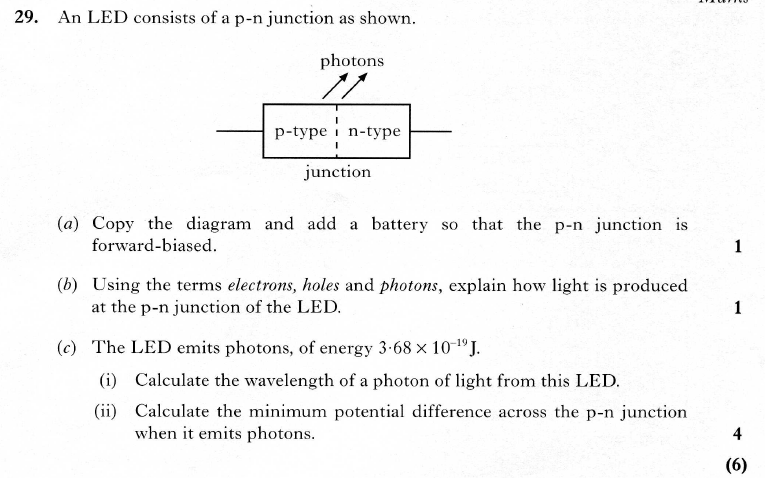
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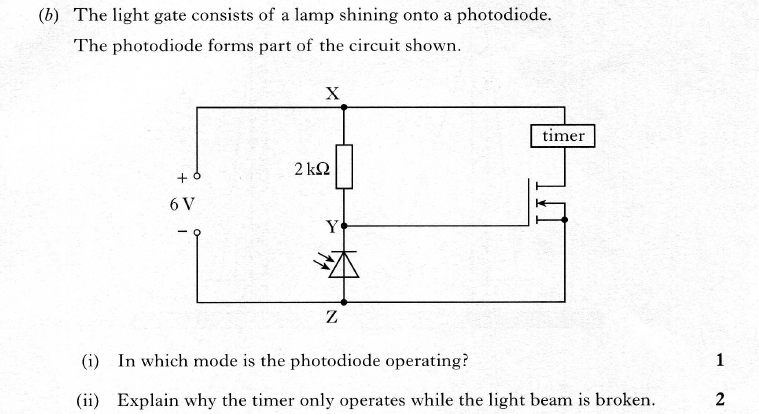


11.

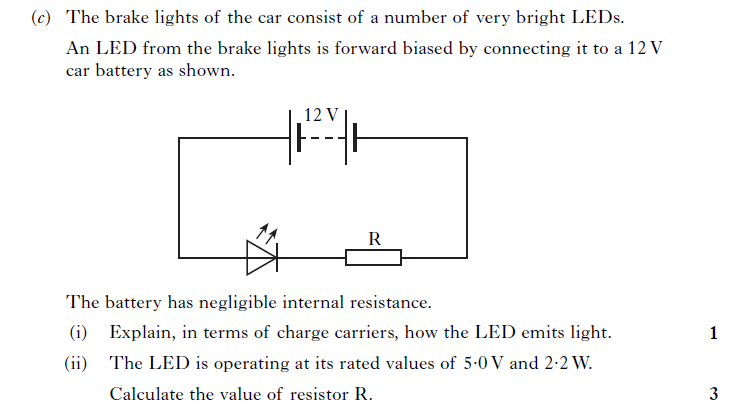
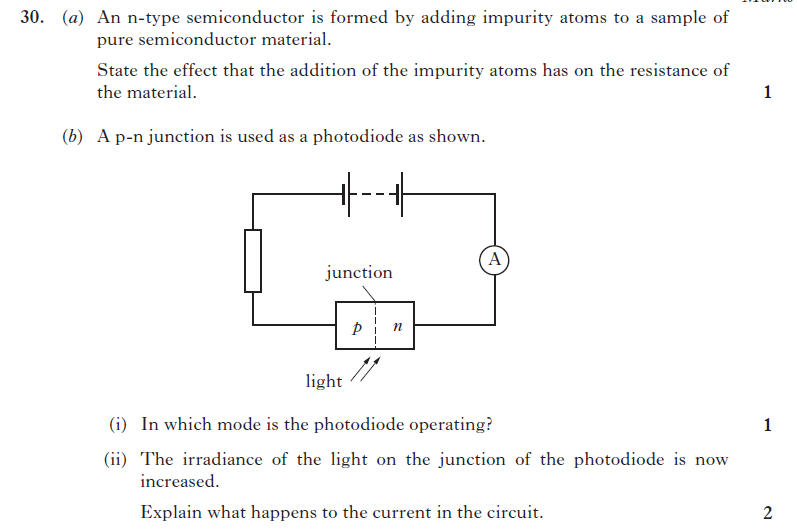
2

13.





14.



16.

15.

A sample of pure semiconductor material has a small amount of impurity atoms added to form a p-type semiconductor.

17.

1. What is this process called?
2. How does the addition of the impurity atoms affect the resistance of the material?

**2**

**30 marks**