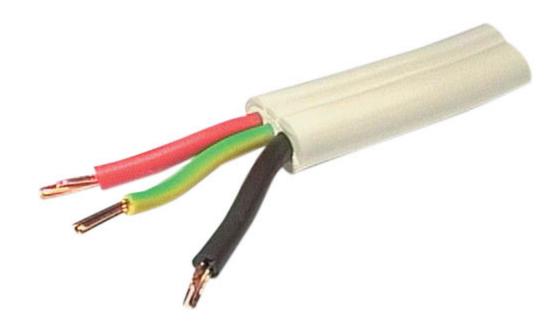


EE3103 conductors, insulators and semiconductors assignment 2



Student name





EE3103 conductor insulator or semiconductor assignment

1) What does valence mean in terms of shells?

2) What does valence mean in terms of electrons?
3) What group of atoms are usually conductors?
4) How many electrons are found in the outer shell of a good conductor?
5) What is the unit of resistivity?
6) Is an electron positively charged?
7) What charge is a neutron?
8) What is an ion?
9) How cold is absolute zero?
10) What element has an atomic number of 29?
11) Loosely bound electrons refer to what group of elements?
12) Define conventional current.
13) How does the valence shell appear in a silicon atom.
14) Is silicon a base material or a donor material?
15) Define an acceptor material.
16) What does p type mean?

17)	What does doping mean?
18)	Name a pentavalent material.
19)	Define PTC.
20)	Where are covalent bonds found?
21)	Is carbon PTC or NTC
22)	What is Nichrome?
23)	Where is tungsten used in the electrical industry?
24)	Why is copper so popular in the electrical industry?
25)	Why is aluminium not used as much as copper for conductors?
26)	Why are rubber cables being replaced with PVC?
27)	Why is carbon good for brush material in rotating machines?
28)	Varnish usually covers what conductor in which application?
29)	Name a fluid insulator commonly used in the electrical industry.
30)	Name the most common insulator used for cables in buildings.