Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) In lithium ion batteries, the charge carriers are electrons as well as ions
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: True

2) Resistivity is an extensive property
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

3) For a resistor, Resistance and Impedance are the same
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: True

4) A capacitor displays very low impedance in response to low frequency AC signals
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

5) In simple cubic structure, larger atoms result in a smaller fraction of vacant space
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

6) A gas at 1 atmosphere pressure and room temperature, has third-order of magnitude higher number of atoms per cubic meter in comparison to a solid at 300°C
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

7) In an ideal gas exchange of energy between the atoms is due to the coulombic repulsion between like atoms.
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

8) The average translational kinetic energy of an atom of an ideal gas is dependent on the temperature of the gas
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: True

9) Gases display strong interaction between the atoms at 2 atmospheres of pressure
   □ True
   □ False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: False

10) An FCC structure has a greater fraction of internal space that is vacant relative to a BCC structure due to its closer packing.
    □ True
    □ False
    No, the answer is incorrect.
    Score: 0
    Accepted Answers: False