Q1. Fill in the blanks:

1. The positively charged particles in an atom are called _________ and the negatively charged particles are called __________.

2. Electrons flow from a body that has _________ of electrons to that has a __________ of electrons.

3. The flow of electrons in a particular direction is called ____________.

4. The direction of flow of conventional current is considered to be from ____________ to ____________ and the direction of flow of electronic current is from ____________ to ____________.

5. Electrolytic conduction occurs when the material is in the ____________ state.

6. The electrode connected to the negative terminal of the battery is called ____________ and the electrode connected to the positive terminal of the battery is called ____________.

Q2. Choose the correct option:
1. The two free ends of an electric tester are dipped in a salt solution as shown in the figure. A section of wire of the tester is wrapped around a magnetic compass.

What is the effect on the compass needle?

a) Remains as it is  
   b) shows a deflection  
   c) Rotates continuously  
   d) loses its magnetism

2. ___________ is a process in which a metallic layer is deposited on a metal plate, which is connected to the ___________ terminal of the battery.

   a) Electroplating, positive  
   b) Electroplating, negative  
   c) Electromagnetism, positive  
   d) Electromagnetism, negative

3. Electroplating cannot protect an object from:

   a) Rusting  
   b) corrosion  
   c) loss of shine  
   d) loss of magnetism

4. Which of the following statements is incorrect about the conductivity of water?

   a) Rainwater is a good conductor of electricity.  
   b) On addition of table salt, water conducts electricity.  
   c) On addition of lemon juice, water conducts electricity.  
   d) Water becomes a good conductor of electricity when heated.