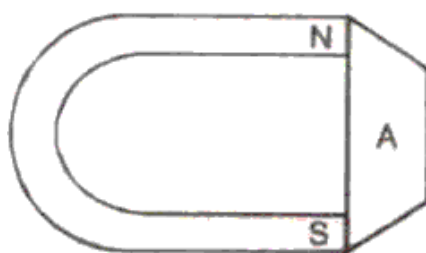


Question 10

- (a) An ebonite rod is rubbed with fur. The fur is brought near to a positively charged gold-leaf electroscope. What will be your observations? Give reasons. [3]
- (b) You are given conducting wires, a cell, a key, a resistor, two different types of meters labeled 'A' and 'V'. You are required to measure the current in the wire and the potential difference across the resistor. Draw a labeled circuit diagram using appropriate symbols to show how they are connected. Also, mark the direction of current in each component. [3]
- (c) A horse-shoe magnet, when not in use, is kept with a metal piece 'A' that is held to the north and south poles. [4]



- What is the metal piece 'A' called?
- What is 'A' made of?
- What is the function of piece A?
- Explain how the piece 'A' serves the purpose, on the basis of molecular (or domain) theory of magnetism.