Electromagnet And Electric Bell

1. **Fill in the Blanks:**

   a. An electromagnet is a magnet that can be turned on and off using _____.

   b. When an electric current flows through a wire coil, it produces a _____.field.

   c. Increasing the number of turns in a wire coil while making an electromagnet makes it _____.

   d. An electric bell uses an electromagnet to produce _____ when the button is pressed.

2. **True or False:**

   a. An electromagnet is a magnet that remains magnetized even when the electric current is turned off.

   b. Increasing the number of turns in a wire coil while making an electromagnet weakens its magnetic field.

   c. Electric bells work by using a permanent magnet instead of an electromagnet.

   d. Closing the circuit in an electric bell allows the electromagnet to attract the striker and produce sound.

3. **Match the following: -**

Column A	Column B
i. Electromagnet	A. Generates a magnetic field when current flows through it
ii. Permanent Magnet	B. Magnet that retains its magnetism without electricity
iii. Electric Bell	C. Uses an electromagnet to produce sound
iv. Magnetic Field	D. Area around a magnet where its force is felt