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5054 W14 MS 42 XtremePapers: Questions and Answers

Paragraph 1:

Question: Explain the purpose of magnetic fields.

Answer: Magnetic fields are used to create forces or motion in electric motors, generators, and other devices that involve the interaction of magnetic and electric fields.

Paragraph 2:

Question: Define the term "magnetic flux density."

Answer: Magnetic flux density, also known as magnetic field strength, is the strength of the magnetic field at a given point. It is measured in Tesla (T) or Gauss (G).

Paragraph 3:

Question: Describe the differences between magnetic materials.

Answer: Magnetic materials vary in their ability to be magnetized. Ferromagnetic materials, such as iron and steel, are easily magnetized and retain their magnetism even when the external magnetic field is removed. Paramagnetic materials, such as aluminum and oxygen, are weakly attracted to magnets. Diamagnetic materials, such as copper and gold, are repelled by magnets.

Paragraph 4:

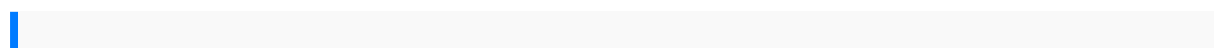
Question: Explain the principle behind the operation of an electric motor.

Answer: An electric motor converts electrical energy into mechanical energy. When an electric current flows through a coil placed in a magnetic field, it creates a magnetic force that causes the coil to rotate. This rotational motion is then used to power machinery or other devices.

Paragraph 5:

Question: Describe the factors that affect the magnetic force between two conductors.

Answer: The magnetic force between two conductors depends on the current flowing through the conductors, the distance between them, and the relative orientation of the conductors. The force is directly proportional to the currents and inversely proportional to the square of the distance.



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