Physics (New Book) - 9th Class Physics English Medium Chapter 8 Preparation

Q1. State right hadn grip rule.

Ans 1: Right hand Grip rule is stated as below
"Grip the solenoid with the right hand such taht fingers are curled along the direction of current in the solenoid, than the thumb points so the N-Pole of the bar end.

Q2. Which type of magnetic field is formed by a current carrying long coil.

Ans 1: A long coil of wire carrying a current produces a magnetic field that is similar to that of a bar magnet. The field lines are concentrated inside the coil and spread out outside, resembling the field lines of a bar magnet.

Q3. Name three uses of permanent magnets.

Ans 1: DC motors and generators
Moving coil loudspeaker
Refrigerator door catchers

Q4. What are magnetic domains.

Ans 1: Magentc domains are microscopic regions with in a ferromagnetic material where atomic magnetic moments are aligned, creating alocalized magnetic field there alignment determines the overall magnetism of the material

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Q5. Why high field electromagnet are made by cores of soft iron.

Ans 1: the magnetism induced in a ferromagnetic material can be surprisingly large in the presence of weak external field. In come, cases, induced field is a thousand time stornger than the exgternal field. That is why high field electomagnets are made by uisng cores of soft irin of some other ferromagnetic material.

Q6. What is the south magetic pole of a bar magnet.

Ans 1: The south magnetic pole is the end of the magnetic that points towards the south.

Q7. How does the sgtrength of a magnetic field vary near to the poles.

Ans 1: Magnetic field lines is stronger near the poles where the field lines are closer together.

Q8. How are magnets used in refrigerator door.

Ans 1: Magnetic strips are fitted to the doors of refrigerators and freezers to keep them tightly Closed