Magnetism

1. A bar magnet is rubbed on a bar of steel along its length 20 times. The bar of steel gets magnetized due to the process of: (a) induction (c) friction (b) conduction (d) none of these 2. The magnetic strength of a bar magnet is: (a) maximum at its centre (c) maximum near its ends (d) none of these (**b**) same along the magnet 3. The surest test of magnet is : (a) repulsion (c) induction (b) attraction (d) none of these 4. Nickel is a: (a) ferromagnetic substance (c) diamagnetic substance (b) paramagnetic substance (d) none of these The substance which form a strong temporary magnet is 5. (a) steel (c) soft iron (b) platinum (d) manganese The place around a magnet where is influence can be detected is called (a) magnetic lines of force (c) magnetic field (b) magnetic pole (d) magnetic space 7. What are magnetic and non-magnetic substances? Give at least two examples of each.

8. Fill the blank spaces in the table given below:

Nature of bar	Action on compass needle	
	North Pole	South Pole
Non-magnetic	No action	
	Attracted	Attracted
North pole of a bar magnet		
	attracted	repelled

PERL EDUCATION - 1st Floor, Shrinath Complex, Sahakar Nagar Chowk, Aurangabad MH - 431001 Contact : 0240-2950011, 87672 56768

DPP - 1

Magnetism

- 1. How do you account for the following facts ?
 - (a) Iron becomes magnetised when placed in a coil carrying direct current.
 - (b) Bar magnets lose their magnetism when heated strongly.
 - (c) Steel makes better permanent magnet than soft iron.
 - (d) Soft iron keepers help to prevent the magnets from losing their magnetic properties.
- 2. State briefly
 - (a) the molecular theory of magnetism,
 - (b) the modern views on magnetism.
- 3. Describe various methods of magnetizing a piece of iron.
- 4. What is magnetic induction? Explain it giving a suitable experiment
- 5. Repulsion is a surer test of magnetic condition of a body than attraction. Explain.
- 6. Draw diagrams showing the arrangements of the lines of force for:
 - (a) a single magnet.
 - (b) two magnets in line with unlike poles facing one another
 - (c) a piece of soft iron laid in line with magnetic field.
- 7. Give short account of the earth's magnetic field.
- 8. Give the various methods for demagnetising a magnet.
- **9.** Describe ewe simple experiments to support the statement that magnetism is a property of the molecules of a magnet.
- **10.** Explain, why steel is used in preference to soft iron for making permanent magnets while soft iron is used in preference to steel for making electromagnets.

PERL EDUCATION - 1st Floor, Shrinath Complex, Sahakar Nagar Chowk, Aurangabad MH - 431001 Contact : 0240-2950011, 87672 56768

DPP - 2