Grade 8 | Science | **Unit : 6 - Magnets**

Part I

Underline the most suitable answer.

1. A substance that is attracted to a magnet

   a. Nickel b. Copper c. Magnesium d. Aluminium

2. This is not a reason to lose the magnetic power of a permanent magnet

   a. Ageing b. Contact with iron nails
   c. Subjected to vibrations d. Subjected to high temperature

3. Wrong statement related to storage of bar magnets.
   a. Strap of wood placed between the magnet.
   b. Soft iron plat is connected between the poles.
   c. Arrange as North pole and south pole are near each other.
   d. Arrange same poles near each other

4. The electromagnetic power increases when
   a. The number of coil loops are increased
   b. The number of coil loops are decreased
   c. An insulated core is used in the middle of the coil.
   d. A small current is passed through the coil.

5. The equipment which uses an electromagnet is
   a. compass b. Electric bell c. Direct current motor d. Bicycle dynamo

Part II

1. Select the appropriate words from the brackets and fill in the blanks of the paragraph given below.

   (Soft iron, magnetic materials, magnetic poles, magnetic field lines, ferrite, magnetic field).

   Materials that show magnetic properties are called……The best material to make permanent magnets is…… . To make temporary magnets, ... is commonly used. The area in whichmagnetic forces exist is called…….. . Influence of a magnetic field can be observed using…….. . The area on a magnet, where the magnetic forces are concentrated is known as the ..... .

Answer all questions

1. What are known as magnetic materials? (02)

2. Give examples for magnetic material. (04)

3. What are known as magnetic poles? (03)

4. What are the 2 types of magnetic poles. (02)

5. Explain one method of finding the poles of magnet in the magnet where the poles have not being marked. (10)

6. Explain the way of doing following activity. (10)

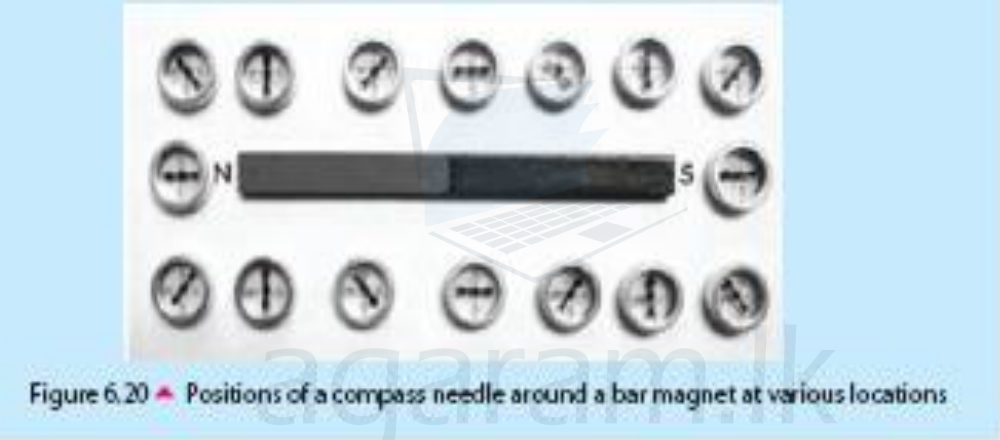
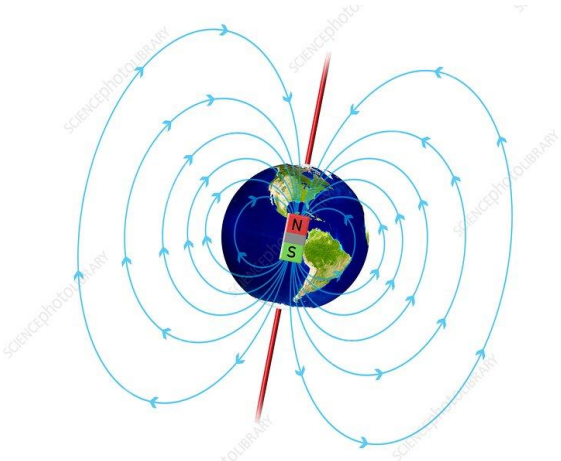


Figure 6.20 ▲ Positions of a compass needle around a bar magnet at various locations

7. What is known as geomagnetism? (03)



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8. Name followings in this diagram. (04)

   1. True North

   2. True South

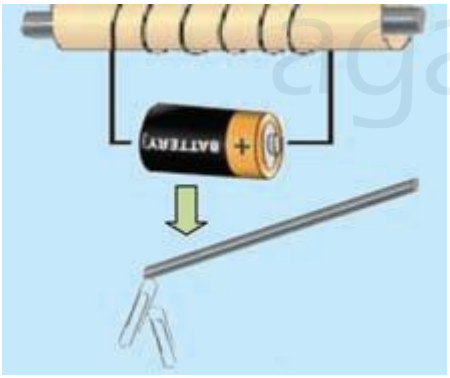
   3. Magnetic North

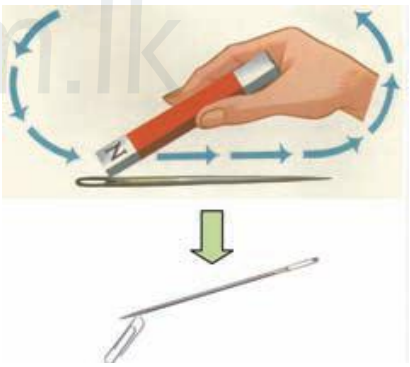
   4. Magnetic South

9. What are the 2 types of magnets by considering the uses of them? (04)

10. What is the difference between temporary magnets and permanent magnets? (02)

11. What are the 2 methods of construction of permanent magnets? Explain in steps the 2 methods separately. (20)





12. Draw the way of storing permanent magnets. (04)

13. Write 5 uses of permanent magnets. (10)