rotating needle-shaped magnet.

MISSION GYAN

Chapter -4 | Exploring Magnets

QUIZ-01

| 1. Which of the following is a naturally occurring magnet? A. Iron rod | 6. Which direction does a freely suspended bar magnet always point to? A. East-West B. Up-Down |
|--|--|
| B. Compass needle | C. North-South D. Diagonal (C |
| C. Lodestone | Explanation : A magnet freely suspended always |
| D. Bar magnet (C) | aligns itself along the North-South direction. |
| Explanation: Lodestone is a naturally occurring | 7. What does a magnetic compass help in finding? |
| magnetic rock known for its magnetic properties. | A. Temperature B. Pressure |
| 2. Which material is not attracted by a magnet? | C. Directions D. Speed (C) |
| A. Iron | Explanation: A magnetic compass helps in finding |
| B. Cobalt | directions as its needle always points north-south. |
| C. Nickel | 8. What is the effect of placing cardboard between a |
| D. Plastic (D) | magnet and a compass needle? |
| Explanation: Plastic is a non-magnetic material and | A. Increases attraction |
| does not stick to mag <mark>n</mark> ets. | B. Blocks magnetic field |
| 3. What do we call the ends of a magnet where most | C. No effect |
| iron filings stick? | D. Magnet melts (C |
| A. Tips | Explanation: Magnetic fields can pass through non- |
| B. Points | magnetic materials like cardboard, so there is no |
| C. Poles | effect. |
| D. Sides (C) | 9. Which of the following shows both attraction and |
| Explanation: The ends of a magnet where maximum | repulsion with magnets? |
| attraction occurs are called poles — North and | A. Glass B. Wood |
| South. | C. Another magnet D. Cotton (C |
| 4. What happens when like poles of two magnets are | Explanation: Only a magnet shows both attraction |
| brought near each other? | and repulsion. Other materials may only be |
| A. They attract B. They rotate | attracted. |
| C. They break D. They repel (D) | 10. What happens when a bar magnet is broken into |
| Explanation: Like poles (N-N or S-S) repel each other, | two pieces? |
| while unlike poles attract. | A. It loses magnetism |
| 5. What is the shape of the magnetic needle in a | B. Only one piece remains magnetic |
| magnetic compass? | C. Each piece becomes a new magnet with both |
| A. Square B. Circular | poles |
| C. Needle-shaped D. Rectangular (C) | D. Poles disappear (C) |
| Explanation: The magnetic compass contains a freely | Explanation : When a magnet is broken, each piece |

still has both a North and a South pole.