

Core Natural Science

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MCQ'S ON MAGNET

Choose the correct option in the following questions:

Question 1.

Which is an example of a magnetic substance?

- (a) Iron
- (b) Nickel
- (c) Cobalt
- (d) All of these

Answer

Answer: (d) All of these

Explanation:

All of these are attracted towards a magnet.

Question 2.

Magnets have a shape

- (a) cylindrical
- (b) ball ended
- (c) horse shoe
- (d) all of these

Answer

Answer: (d) all of these

Explanation:

Magnets may be of various shapes including bar magnets.

Question 3.

When a bar magnet is brought near iron dust, most of the dust sticks

- (a) near the middle
- (b) equally everywhere
- (c) near two ends
- (d) at the middle and ends

Answer

Answer: (c) near two ends

Explanation:

Magnetic field intensity is maximum at the poles of a bar magnet.

Question 4.

A freely suspended bar magnet rests in

- (a) north-south directions
- (b) east-west directions
- (c) upside down
- (d) any direction by chance

Answer

Answer: (a) north-south directions

Explanation:

A bar magnet always rests in N-S directions when suspended freely.

Question 5.

Attraction is seen between the poles of two bar magnets in the case of

- (a) N-pole of one magnet with N-pole of other
- (b) N-pole of one magnet with S-pole of other
- (c) S-pole of one magnet with S-pole of other
- (d) all of these cases will show attraction

Answer

Answer: (b) N-pole of one magnet with S-pole of other

Explanation:

Unlike poles attract and like poles repel each other.

Question 6.

Which is a natural magnet?

- (a) Magnetite
- (b) Haemetite
- (c) Bakelite
- (d) Copper

Answer

Answer: (a) Magnetite

Explanation:

Magnetite is a natural magnet.

Question 7.

Choose the wrong statement

- (a) Heat can destroy magnetic properties of a magnet.
- (b) Magnets are made up of different materials and different shapes.
- (c) There is a maximum attraction in middle of a magnet.
- (d) Magnetite does not show magnetic properties.

Answer

Answer: (d) Magnetite does not show magnetic properties.

Explanation:

Magnetite does not show magnetic properties.

Question 8.

The magnetic properties of a magnet cannot be destroyed by

- (a) hammering
- (b) heating
- (c) dropping on a hard surface
- (d) boiling

Answer

Answer: (d) boiling

Explanation:

Magnetic properties of a magnet cannot be destroyed by boiling, because magnetic properties are destroyed by hammering, dropping on hard surface and by heating.

Question 9.

Which two ends of a magnet are called magnetic poles?

- (a) North pole
- (b) South pole

- (c) North and south pole
- (d) Self demagnetisation

Answer

Answer: (c) North and south pole

Explanation:

Magnetic poles (North pole and South pole)

Question 10.

Magnets attract

- (a) wood
- (b) plastic
- (c) paper
- (d) iron

Answer

Answer: (d) iron

Explanation:

Iron is attracted by magnet.

Match the following items given in Column A with that in Column B:

Column A Column B

- (a) Magnetite (i) Non-magnetic substances
- (b) Iron, nickel, cobalt (ii) Used to find out N-S directions
- (c) Leather, plastic, wax (iii) Attract each other
- (d) Lodestone (iv) Natural magnet
- (e) Compass (v) Repel each other
- (f) Like poles of two magnets (vi) Discovered magnet incidently

- (g) Opposite poles of two magnets (vii) Magnetic, substances
(h) Magnus (viii) Name of first magnet

Answer

Answer:

Column A Column B

- (a) Magnetite (iv) Natural magnet
(b) Iron, nickel, cobalt (vii) Magnetic substances
(c) Leather, plastic, wax (i) Non-magnetic substances
(d) Lodestone (viii) Name of first magnet
(e) Compass (ii) Used to find out N-S directions
(f) Like poles of two magnets (v) Repel each other
(g) Opposite poles of two magnets (iii) Attract each other
(h) Magnus (vi) Discovered magnet incidently

Fill in the blanks with appropriate words:

1. When north-pole of one magnet is brought near the of another magnet, they attract one another.

Answer

Answer: south pole

2. When the north-pole of one magnet is brought close to the of another magnet, they repel each other.

Answer

Answer: north pole

3. Similar poles of two magnets one another.

Answer

Answer: repel

4. A compass needle always points in a direction

Answer

Answer: north-south

5. Stickers with pieces of magnet inside them easily stick to surfaces like the doors of refrigerator.

Answer

Answer: iron

6. Materials which get towards magnet are known as magnetic.

Answer

Answer: attracted

7. The of magnet where maximum iron filings get clung, are known as

Answer

Answer: ends, poles

8. Magnetic effect can pass through

Answer

Answer: screen

9. We should not drop the magnet, shouldn't heat it, shouldn't it.

Answer

Answer: hammer

10. The south pole of the earth's magnet is near the geographical pole.

Answer

Answer: north

11. Magnetic poles always in pairs.

Answer

Answer: exist

12. Hammering destroys the of small magnets inside.

Answer

Answer: magnetism

State whether the statements given below are True or False:

1. Lodestone is composed of oxides of iron.

Answer

Answer: True

2. North and south poles are found to exist separately.

Answer

Answer: False

3. Magnetite doesn't show magnetic properties.

Answer

Answer: False

4. If we cut a bar magnet in two halves we will have two magnets.

Answer

Answer: True

5. Heat can destroy magnetic properties of a magnet.

Answer

Answer: True

6. Magnets are made up of different materials and in different shapes.

Answer

Answer: True

7. Compass needle is made of a magnet.

Answer

Answer: True

8. There is a maximum attraction in middle of a bar magnet.

Answer

Answer: False

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