

Physics SA 1 Revision Worksheet

Sub: Physics Revision Worksheet 1 18th Sep.

Class: 6ABC

a. Choose the correct answer:

1. The objects that emit their own light are

- a. Non-luminous
- b. Opaque
- c. luminous
- d. Transparent

2. Which of the following is a transparent object?

- a. Clear glass
- b. Wood
- c. Butter paper
- d. Mirror

3. Identify the translucent object from the following.

- a. Frosted glass
- b. Cardboard
- c. Mirror
- d. Clear water

4. The materials that do not allow light to pass through them are

- a. Opaque
- b. Transparent
- c. translucent
- d. All of these

5. Which of the following objects cannot form a shadow?

- a. Pencil
- b. Clear glass
- c. Bag
- d. Notebook

6. When the distance between the screen and the pinhole is increased

- a. a bigger image is formed
- b. image size remains the same
- c. a smaller image is formed
- d. no image is formed

7. When we use a broad source of light

- a. only umbra is formed
- b. only penumbra is formed
- c. both umbra and penumbra are formed
- d. no shadow is formed

b. State true or false:

1. The objects that do not emit their own light are called luminous objects.

True

False

2. The light is produced by a living organism when the enzyme called luciferase chemically reacts with the oxygen in the air.

True

False

3. Wood does not allow light to pass through.

True

False

4. A shadow shows only the outline of the object.

True

False

5. The shadow of an object is longer at noon than in the morning.

True

False

6. Umbra is the region where the observer experiences partial darkness of the shadow.

True

False

7. If we have a point light source, only penumbra is formed on the screen.

True

False

c. Match the following.

1. Opaque object shadow

2. Firefly shadow

3. Umbra

4. Penumbra

5. Translucent object

a. The innermost part of a

b. The outermost part of a

c. Bioluminescence

d. Dim shadow

e. Dark shadow

a. Choose the correct answer.

1. Which of the following is a natural magnet?

- a. Bar magnet
- b. Circular magnet
- c. Lodestone
- d. Horse-shoe magnet

2. Which of the following materials is a magnetic material?

- a. Zinc
- b. Iron
- c. Wood
- d. Bronze

3. Out of the given statements, which is true about a magnet?

- a. North pole attracts the north pole.
- b. South pole attracts the north pole.
- c. The South pole always exists in isolation.
- d. A magnet has two north poles.

4. An artificial magnet can be made using this method:

- a. Single-stroke
- b. Double-stroke
- c. Electrical
- d. All of these

5. The process by which a magnet loses its property is called:

- a. Magnetisation
- b. Demagnetisation
- c. Electromagnetisation
- d. Directionality

6. Which of the following actions would demagnetise a magnet quickly?

- a. Hammering
- b. Placing it in the open
- c. Placing it near another magnet
- d. Breaking it into two

7. In which of the following devices is a magnet used?

- a. Electric bell
- c. Fan
- b. Gas stove
- d. Electric water heater

b. Fill in the blanks.

1. When the south pole of a magnet is placed near the _____ (north/south) pole of another magnet, it repels.
2. The property of attraction in a magnet is _____ (more/less) at the ends of the magnet.
3. The magnetic south pole of Earth is the geographic _____ (north/south).
4. The outer case of a compass is always made of a _____ (magnetic/non-magnetic) material.
5. The polarity of _____ (a bar magnet/an electromagnet) depends on the direction of the electric current passed.
6. A horseshoe magnet requires a _____ (single/double) keeper to save its magnetism.
7. Continuous heating will _____ (magnetise/demagnetise) a magnet.

c. Write T for True and F for False.

1. Circular magnets are natural magnets.

True

False

2. Magnetite is an example of an artificial magnet.

True

False

3. All magnetic materials are attracted to a magnet.

True

False

4. A freely suspended magnet comes to rest in the north-south direction.

True

False

5. The poles of a magnet always exist in pairs.

True

False

6. Stroke method is otherwise called the touch method.

True

False

7. A permanent magnet will never demagnetise.

True

False

d. Match the following.

- | | |
|--------------------|------------------------|
| 1. Lodestone | a. Poles of the magnet |
| 2. Electromagnet | b. Magnetic material |
| 3. North and south | c. Natural magnet |
| 4. Iron | d. Artificial magnet |