



# KALPAVRUKSHA MODEL SCHOOL

## Answers of Online Class Assignments

**Class: VIII**

**Sub: Physics**

**Date: 27.08.2021**

**Topic: SOME NATURAL PHENOMENA**

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### **I. Answers:**

- 1. What name is given to the flash of light which occurs in the sky during the rainy season?**

ANS: Lightning is the name given to the flash of light which occurs in the sky during the rainy season.

- 2. An inflated rubber balloon and a woolen cloth are rubbed together. What type of charge is acquired by woolen cloth and rubber balloon?**

ANS: The rubber balloon becomes negatively charged when rubbed with a woolen cloth. The woolen cloth acquires a positive charge.

- 3. Define electroscope.**

ANS: An electroscope is a scientific tool which helps in detecting the presence of an electric charge on a body.

- 4. Like charges repel each other. Justify the statement with one example.**

ANS: When we charge a balloon by rubbing on our hair and take it near another balloon which has also been charged in a similar way, both balloons being negatively charged repel each other. This happens because charges repel each other and unlike charges attract to each other.

### **II. CHOOSE THE CORRECT ANSWERS:**

1. The two bodies are rubbed against each other \_\_\_\_\_.  
a. They acquire equal and similar charges  
b. They acquire equal and opposite charges  
c. They acquire unequal and opposite charges  
d. None of these

**ANS: b. they acquire equal and opposite charges**

2. When an object gets negatively charged by the process of friction, then\_\_\_\_\_.
- a. the object loses some electrons and gains some proton
  - b. the object loses some protons and gain some electron
  - c. the object gain some electron
  - d. the object gain some protons

**ANS: c. the object gain some electron**

3. Which of the following cannot be charged by friction, if held by hand?
- a. a plastic scale.
  - b. a copper rod
  - c. an inflated balloon
  - d. a woolen cloth

**ANS: b. a copper rod**

4. like charges\_\_\_\_\_ : unlike charges\_\_\_\_\_.
- a .repel, repel
  - b. attract, repel
  - c. repel, attract
  - d. attract, attract

**ANS: c. repel, attract**

5. The object which loses negatively charged electrons during rubbing acquires \_\_\_\_\_electric charges.

- a. positive
- b. negative and positive
- c. negative
- d. none of these

**ANS: a. positive**