



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI -

**CLASS VIII
ASSIGNMENT**

Some Natural Phenomena

- Q1. What type of electric charge is acquired by a rubber balloon when rubbed with a woolen cloth?
- Q2. A positively charged object repels another charged object kept close to it. What is the nature of charge on the other object?
- Q3. A glass rod is rubbed with a silk cloth & a rubber balloon is rubbed with a woolen cloth.
- Which two objects acquire negative charge?
 - Which two objects acquire positive charge?
- Q4. Explain why, a glass rod can be charged by rubbing when held by hand but an iron rod cannot be charged by rubbing, if held by hand?
- Q5. Consider three charged bodies P, Q & R. If P & Q repel each other & P attracts R. What is the nature of force between Q & R?
- Q6. Name the device used to detect electric charge on a body. Draw its labeled diagram.
- Q7. What will you observe when the metal cap of an electroscope is touched with a glass rod which has been rubbed with silk cloth? Give reason for your answer.
- Q8. What are the uses of an electroscope? (3 points)
- Q9. Why do the leaves of a gold leaf electroscope diverge when a charged body is brought in contact with its disc?
- Q10. Do the leaves of an electroscope always diverge to the same extent when a charged body is brought in contact with its disc?
- Q11. What will you observe when the metal cap of an electroscope is touched with:
- A positively charged object?
 - A negatively charged object?

Q12. What happens to the charge on an electroscope when its disc is connected to that of an uncharged electroscope with the help of a conducting wire? What happens to the leaves of the two electroscopes?

Q13. What would you expect in the following cases?

a) A glass rod rubbed with a piece of silk is brought near a negatively charged paper cylinder.

b) A negatively charged body is brought in contact with the disc of a positively charged electroscope.

c) Someone touches the disc of a negatively charged electroscope.

Q14. What will be the charge

a) on the metal cap &

b) on the leaves of an electroscope, if you bring a positive rod near the end of its metal cap.

Q15. What will be the charge

a) on the metal cap &

b) on the leaves of an electroscope, if you bring a positive rod in contact with its metal cap.

Q16. Explain why a charged body loses its charge when we touch it with our hand.