LIGHT AND WIND STORM (VII)

1. Explain why a rubber sucker pressed on a smooth surface gets stuck to the surface.
2. Describe an experiment to show that increased wind speed leads to reduced air pressure.
3. What are the hazards associated with a cyclone?
4. Describe the 'eye of a cyclone'?
5. What causes a tornado to be formed?
6. What causes monsoon winds?
7. What causes lighting during a thunderstorm?
8. The speed of wind in a region suddenly increases. How does this affect the pressure in the region?
9. What do you mean by 'angle of incidence' of a ray of light on a plane mirror?
10. What is a real image? What do you mean by lateral inversion?
11. A convex rear view mirror is preferred over a plane mirror in a car? Why?
12. What is spectrum?
13. Draw a labelled diagram of an experiment to show rectilinear propagation of light?
14. Explain the difference between real and virtual images.
15. State the position and nature of the image formed by a concave mirror for the following position of the object: (a) between O and F
    (b) between F and C. beyond C.
16. Explain the following with the help of a ray diagram in relation to the two main types of the spherical lenses.
    (a) Principle focus (b) focal length.