Ln- 15 Some natural phenomon

1. How are electrical charges related to the lightning in the sky?

2. How does a lightning conductor protect a building from lightning? Explain its process

3. Can scientists predict when a earth quake shall strike and where it will strike?

4. How does a richter scale work?

5. Draw a map of an earthquake and mark its focus and epicentre.

6. Define seismic waves

7. What are different cases of tremors?

8. If an earthquake occurs under water and the Richter scale gives a magnitude of 8, is it likely to stir up a tsunami or just vibrative destruction?

9. Which of the following cannot be charged by friction, if held by hand? why?
   A) a plastic scale b) a copper rod c) an inflated balloon

10. What kind of electric charge is acquired
    a) by a glass rod rubbed with silk cloth
    b) by a plastic comb rubbed with dry hair

Ln-16 light

1. A shopkeeper wanted to fix a mirror which will give a maximum view of his shop. What type of mirror should he use? Give reasons.

2. Two different type of lenses are placed on a sheet of newspaper. How will you identify them without touching?

3. Why should you not look at the sun through a convex lens?

4. Night birds have less cones than rods. Explain

5. Can a laser be defined as a light. why/why not?

6. The distance between an object and a convex lens is changing. It is noticed that the size of the image formed on a screen is decreasing. Is the object moving in a direction towards the lens or away from it?

7. The side mirror of a scooter got broken. The mechanic replaced it with a plane mirror. Mention any inconvenience that the driver of the scooter will face while using it.

8. What will happen if light is shown along the normal?

9. The pupil contracts when we focus on something; why is it so?

10. The concave reflecting surface of a torch got rusted. What effect would this have on the beam of light from the torch?

Lesson-17
Stars and the solar system

1. What does iau stand for? What does it do?

2. What is responsible for the change in season on earth?

3. Why do we classify the sun as a star?

4. How many constellations have been identified? How are they named?

5. Give the important features of the moon.

6. Name the planets that were known to ancient astronomers.

7. Name the planet that was predicted before i t was actually observed. How did astronomers know this existed?

8. Name the periodic comet. Why is it so called?

9. What is the difference between a natural and an artificial sattelite?

10. Why is moon not suitable as a communication satellite?

Lesson-18
Pollution of air and water

1. Describe the harmful effects caused by ozone depletion.

2. On the basis of your experience, state the differences in the quality of air in the following places.
   [a] a park and a busy road.
   [b] an industrial area and a forest.
   [c] a village and a city.

3. Why do some areas have better quality of air than others?explain.

4. What are the factors responsible for the pollution of rivers? Can something be done to restore polluted rivers?

5. How can hot water become a pollutant? Explain.

6. Anandi went on a road trip with her friends. On the way, she noticed a polluted water body. She wants to know whether the government restores rivers and water bodies. can you tell her? what does the government do to restore rivers?

7. What is the ganga action plan? When was it launched? What does it aim to do?

8. Why should people near the taj mahal switch to cleaner fuels such as CNG [compressed natural gas] and LPG [liquified petroleum gas]?

9. Is burning of waste material advisable? Explain your answer.

10. What causes marble cancer? Explain.