

## Value Based Questions

**Q. 1.** Shekhar had to go for an important meeting and it was raining heavily. He was getting too late. While driving his car, he saw from his side mirror that the car which was behind his car had met an accident. He suddenly applied the brake to help the injured person though he was getting late for his meeting. He alone took the person to the nearest hospital. The person got the treatment at the right time and his life was saved.

Answer the following questions based on the situation given above.

- (i) Name the type of mirror from which Shekhar saw the accident.
- (ii) Why this particular mirror is used as a side mirror in vehicles?
- (iii) What values are being reflected by Shekhar?

**Ans.** (i) The mirror is convex mirror.

(ii) Convex mirror is used as a side mirror in vehicles because it always give an erect, though diminished image and it has a wider field of view as it is curved outwards. Thus, it enables the driver to view much larger area than a plane mirror.

(iii) Helpfulness, kindness.

**Q. 2.** A detective is tracking some criminals. He finds a clue to their whereabouts on a piece of paper. On the paper is written:

meet me at noon


He tries to decode it but is unsuccessful. Suddenly it strikes him and he takes a mirror. He places the mirror in front of the paper and voila he decodes the clue-'meet me at noon'.

Answer the following questions based on the situation given above.

- (i) What values are being promoted by the detective?
- (ii) Write one use of such mirror images on a daily basis. Write STOP as it should be written on the front of a police car.

**Ans.** (i) Ingenuity, intelligence.

(ii) This type of mirror image is used in ambulance. On the front of a police car STOP should

be written as  .

**Q. 3.** While boating with parents, a child saw a beautiful fish in the lake. He tried to catch it, thinking that it is very close to the boat. His parents told him that the fishes are deep in water and he should not try to catch them. But he did not listen to them and the situation became worse when he fell in the lake instead of catching it.

Answer the following questions based on the situation given above.

**(i) Why did the fish appear close to the boat when in actual it was deep in water?**

**(ii) What values are neglected by the child?**

**Ans.** (i) This is due to the phenomenon of refraction. Light reflected from the fish travels through the water towards the eye. As it passes from the water into the air, it refracts away from the normal because water is denser than air and thus, the fish appears closer.

(ii) Obeying elders, being careful, understanding reasons for natural phenomena.