## **Value Based Questions**

- 1. Kanika carried out an experiment on determination of speed of sound in air using resonance tube apparatus and obtained absurd results. She should
- (a) record the result as such.
- (b) manipulate the result and report the answer nearer to actual value of velocity of sound in air.
- (c) copy the result obtained by another student.
- (d) report the result as such and discuss the matter with the teacher to find out the reasons for wrong results.

Answer the following questions based on the above information:

- (i) Which is the most appropriate option for Kanika?
- (ii) What values will Kanika be promoting through preferring this option?
- (iii) Give one more example of promoting such values in real life situations.

**Ans.** (*i*) (d)

- (ii) Intellectual honesty, desire to know more and improve.
- (iii) Submitting honest information for income tax returns, honest dealings.
- 2. Kunal and Abhimanyu were waiting to go across a railway crossing. Kunal jumped over the barrier and curiously put his ear on the railway track. Abhimanyu opposed Kunal and pulled him away from the railway track.
- (i) Why did Kunal put his ear on the railway track?
- (ii) Can sound travel faster through (a) Copper (b) water.
- (iii) Why did Abhimanyu pull Kunal away from the railway track?

**Ans.** (*i*)To hear the sound of the coming train because sound travel within the rail track and get the idea of distance of incoming train.

- (ii) Copper.
- (iii) For safety as he cares for his friend..
- 3. Reena's grandmother took her mother to a doctor as she was four months pregnant for ultra-sonography. But she showed her interest in determining whether the child is a boy or a girl. The doctor was annoyed and refused to disclose the gender of the child.
- (i) What is ultra-sonography?
- (ii) Why do you think the doctor refused to determine the gender of the child?
- (iii) What values are promoted by the doctor?
- **Ans.** (*i*) The technique of obtaining pictures of internal organs of body by using echoes of ultrasound pulses is called ultrasonography.

- (ii) To disclose the gender is against the law and also to discourage the curiousity of knowing the sex of the child before birth.
- (iii) Obeying laws, honesty.