Viva Questions with Answers on Determination of Boiling point

1. Define boiling point.

Ans. Boiling point may be defined as the temperature at which the vapour pressure of the liquid becomes equal to the atmospheric pressure.

2. What is the effect of increase of pressure on the boiling point ?

Ans. On increasing the outside pressure the boiling point of liquid increases.

3. What is the effect of decrease of pressure on the boiling point ?

Ans. On decreasing the outside pressure the boiling point of liquid decreases.

4. What will happen to the boiling point of the liquid if some non-volatile liquid is added to it ?

Ans. The boiling point of the liquid will increase.

5. Why different liquids have different boiling points ?

Ans. Boiling point depends upon intermolecular forces existing in the liquid. Since different liquids have intermolecular forces of different strength therefore their boiling points are different.

6. Why is food cooked more quickly in a pressure cooker ?

Ans. In a pressure cooker water boils at a higher temperature and hence cooking takes place at a higher temperature.

7. Suppose boiling point of a liquid is 100°C in Delhi. At hill station will it be the same or different ? Give reasons.

Ans. The boiling point of the liquid will be less than 100°C at the hill station. Boiling point