Section - 3

Q2

Ventilation ⇒ It may be defined as supply of fresh outside air into an enclosed space or the removal of inside air from the enclosed space.

Following are the factors affect the ventilation.

1) Air Changes :— The rate of air change will depend upon the volume of structure, type of activity in the premises number of persons occupying the premises. etc.

2) Humidity ⇒ The criteria of relative humidity of air also affect the ventilating system of the structure.

For working at temperature of 21°c a, a range of 30 to 70 per cent of relative humidity is desirable

3) Quality of Air — The purity of air plays an important role in the comfort of persons affected by ventilation system.

4) Temperature ⇒ It is quite evident that the incoming air for ventilation should be cool in summer and warm in winter before it

enters the room.
The popular values of effective temperature in winter & summer are 20°c & 22°c respectively.

5) Use of Building ⇒ The quantity of fresh air to be supplied to a room depends on the use of building & types of activity, period of working,