

## 1. DISCUSS THE EFFECTS OF TEMPERATURE INVERSION ON ATMOSPHERE AND WEATHER.

**Ans:** Temperature inversion determines the precipitation, forms of clouds, and also causes frost due to condensation of warm air due to its cooling.

It causes the stability of the atmosphere that stops the downward and upward movement of air.

It causes frost when the condensation of warm air due to its cooling by cold air below occurs at a temperature below freezing point. Temperature Inversion also determines precipitation, cloud forms etc.

Fog is formed due to the situation of warm air above and cold air below, and hence visibility is reduced which causes disturbance in transportation.

Diurnal variations in temperature are affected due to temperature inversion

It may disturb the radio signals in the region as more of it is refracted from layers above the cold air.

It can also lead to violent thunderstorm if the temperature inversion is broken.

To conclude, temperature inversion might be desirable phenomena when it comes to cooler air temperatures, and comfort after an extremely hot and oppressive day, the after-effects on air quality are certainly not desirable.