

Date Planned : __ / __ / __	Daily Tutorial Sheet-1	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

1. Which of the following pollutants are easily degraded ?  
 (A) dichlorodiphenyltrichloroethane (DDT) (B) plastic materials  
 (C) heavy metals (D) discarded vegetables
- \*2. Which of the following statements regarding the atmosphere are true ?  
 (A) The thickness of the atmosphere is same at all heights  
 (B) There are concentric layers of air and each layer has same density  
 (C) There are concentric layers of air and each layer has different density  
 (D) The thickness of the atmosphere is not same at all heights
- \*3. Which of the following statements regarding the TROPOSPHERE is true ?  
 (A) It is the lowest region of the atmosphere in which the human beings along with other organisms live  
 (B) It extends between 10 & 50 km above sea level  
 (C) It is a turbulent, dusty zone containing air, much water vapour and clouds  
 (D) It extends upto a height of ~ 10 km from sea level
4. The stratosphere :  
 (A) extends between 10 and 50 km above sea level  
 (B) contains dinitrogen, dioxygen, ozone and little water vapour  
 (C) contains the ozone layer  
 (D) All of the above
5. Which of the following, present in the stratosphere prevents 99.5 percent of the sun's harmful UV radiations from reaching the earth's surface ?  
 (A) water vapour (B) dinitrogen  
 (C) ozone (D) dioxygen
- \*6. Which of the following are gaseous air pollutants ?  
 (A) dust (B) oxides of sulphur, nitrogen and carbon  
 (C) hydrocarbons (D) ozone
- \*7. Which of the following are particulate pollutants ?  
 (A) mist (B) fumes  
 (C) smoke (D) smog
8. 'X' is a gas that is poisonous to both plants and animals. The following have been reported regarding 'X' :  
 I. In low concentration, it causes respiratory diseases eg. Asthma, bronchitis, emphysema in human beings  
 II. It causes irritation to the eyes, resulting in tears and beings.  
 III. High concentration of X leads to stiffness of flower buds which eventually fall off 'X' is  
 (A) CO<sub>2</sub> (B) O<sub>2</sub>  
 (C) N<sub>2</sub> (D) SO<sub>2</sub>

9. Which of the following statements is NOT true ?
- (A) Uncatalysed oxidation of  $\text{SO}_2$  is very fast
  - (B) The presence of particulate matter in polluted air catalyses the oxidation of  $\text{SO}_2$  to  $\text{SO}_3$
  - (C) The conversion of  $\text{SO}_2$  to  $\text{SO}_3$  is also promoted by ozone
  - (D) Uncatalysed oxidation of  $\text{SO}_2$  is slow
10. The main constituents of air  $\text{O}_2$  &  $\text{N}_2$  react with each other :
- (A) At normal temperature
  - (B) At high altitudes when lightning strikes
  - (C) At low altitudes during hot summer days
  - (D) At high altitudes during winters