Date Planned : __ / __ / __	Daily Tutorial Sheet-6	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration :_____

51. Classical and photochemical smog are :

(A) both oxidising in nature **(B)** both reducing in nature

(C) oxidising & reducing respectively **(D)** reducing & oxidising respectively

***52.** Photochemical smog :

(A) occurs in cool, humid climate

(B) occurs in warm, dry and sunny climate

(C) is a mixture of smoke, fog and SO_2

(D) is formed as a result of the action sunlight of unsaturated hydrocarbons & nitrogen oxides produced by automobiles & factories

53. The common components of photochemical smog besides ozone and nitric oxide are :

(A) $\underset{\text{Formaldehyde}}{H-\overset{\overset{O}{\|}}{C}-H}$ **(B)** $\underset{\text{Acrolein}}{H_2C=CH-\overset{\overset{O}{\|}}{C}H}$

(C) $\underset{\text{Peroxyacetyl nitrate (PAN)}}{CH_3-\overset{\overset{O}{\|}}{C}-OONO_2}$ **(D)** All the above

54. Photochemical smog causes serious health problems such as :

(A) Irritation in the eyes **(B)** Headache, chest pain

(C) Cough, difficulty in breathing **(D)** All of the above

***55.** Photochemical smog leads to :

(A) serious health problems **(B)** cracking of rubber

(C) extensive damage to plant life

(D) corrosion of metals, stones, building materials, rubber and painted surfaces.

56. The upper stratosphere consists of considerable amount of X. X protects us from the harmful ultraviolet (UV) radiations coming from the sun. These radiations cause skin cancer (melanoma) in humans. X is :

(A) CO **(B)** CO_2 **(C)** O_3 **(D)** O_2

57. Ozone in the stratosphere is formed in the following manner :

(A) $CO(g) \xrightarrow{UV} C(s) + O(g)$

$O(g) + O_2(g) \overset{UV}{\rightleftharpoons} O_3(g)$

(B) $NO(g) \xrightarrow{UV} N(g) + O(g)$

$O(g) + O_2(g) \overset{UV}{\rightleftharpoons} O_3(g)$

(C) $CO_2(g) \xrightarrow{UV} C(s) + 2O(g)$

$O(g) + O_2(g) \overset{UV}{\rightleftharpoons} O_3(g)$

(D) $O_2(g) \xrightarrow{UV} O(g) + O(g)$

$O(g) + O_2(g) \overset{UV}{\rightleftharpoons} O_3(g)$

***58.** Which of the following statements are incorrect ?

(A) Ozone is thermodynamically highly stable

(B) Ozone is thermodynamically unstable

(C) A dynamic equilibrium exists between the production and decomposition of ozone molecules

(D) Ozone once formed, does not decompose

59. Which of the following chemicals cause depletion of the ozone layer ?

(A) NO_2 **(B)** Chlorofluorocarbon compounds (CFCs)

(C) Amino acids **(D)** Acrolein

60. CFCs or freons :

I. are highly reactive **II.** non flammable **III.** non toxic

(A) I and III **(B)** I and II

(C) II and III **(D)** I, II and III