

Date Planned : / /	Daily Tutorial Sheet-7	Expected Duration : 90 Min		
Actual Date of Attempt : / /	Level-2	Exact Duration :		

- *61. The CFCs are used in refrigerators, air conditioners, in the production of plastic foam etc. Which of the following statements are correct?
 - **(A)** The CFCs are responsible for the depletion of the ozone layer.
 - **(B)** The CFCs get broken down by powerful UV radiations in the stratosphere, releasing chlorine free radical

$$CF_2Cl_2(g) \xrightarrow{UV} \dot{Cl}(g) + \dot{C}F_2Cl(g)$$

(C) The chlorine radical then reacts with stratosphere ozone to form chlorine monoxide radicals and molecular oxygen

$$\dot{Cl}(g) + O_3(g) \longrightarrow Cl\dot{O}(g) + O_2(g)$$

(D) Reaction of chlorine monoxide radical with atomic oxygen produces more chlorine radicals

$$Cl\dot{O}(g) + O(g) \longrightarrow \dot{Cl}(g) + O_2(g)$$

- *62. In 1980s atmospheric scientists working in Antarctica reported about depletion of ozone layer commonly known as ozone hole over the South pole. Which of the statements are correct?
 - (A) In summers, NO_2 and CH_4 react with chlorine monoxide and chlorine atoms forming chlorine sinks, preventing much ozone depletion.
 - (B) In summers, special type of clouds called polar stratospheric clouds are formed over Antarctica.
 - **(C)** The polar stratospheric clouds provide surface on which chlorine nitrate gets hydrolysed to form hypochlorous acid.
 - **(D)** Chlorine nitrate also reacts with hydrogen chloride to give molecular chlorine.
- *63. With the depletion of ozone layer more UV radiation filters into the troposphere. UV radiations lead to:
 - (A) Ageing of skin

- (B) Skin cancer
- **(C)** Killing of phytoplanktons & damage to fish productivity
- **(D)** Increase in the evaporation of surface water through the stomata of the leaves
- *64. Pollution of water originates from human activities. Through different paths, pollution reaches surface or ground water. Which of the following are true?
 - **(A)** Easily identified source or place of pollution is called the point source.
 - (B) Non-point sources of pollution are those where a source of pollution cannot be easily identified.
 - **(C)** Municipal and industrial discharge pipes are non-point sources of pollution.
 - **(D)** Agricultural run off, acid rain, storm-water drainage (from streets etc) are point sources of pollution.
- **65.** The most serious water pollutants are the disease causing agents called pathogens. Which of the following statements is/are true?
 - **I.** Pathogens include bacteria and other organisms that enter water from domestic sewage and animal excreta.
 - II. Human excreta contain bacteria such as Escherichia coli and Streptococcus faecalis which cause gastrointestinal diseases.
 - (A) Only I
- (B) Only II
- (C) I and II
- **(D)** None of the above



Which of the following water pollutants are organic wastes?

*66.

(A)	Leaves, grass, trash			(B)	Pathogens					
(C)	Water soluble in	norganic	chemicals	(D)	Excessive phytoplankton growth					
67. If the concentration of dissolved oxygen in water is below X ppm, the growth of fish gets inhibited X is:										
(A)	10	(B)	12	(C)	6	(D)	None of the above			
*68. The amount of oxygen required by bacteria to break down the organic matter present in a certain volume										
of a s	ample of water	is call	ed BIOCHEMIC	AL OXY	GEN DEMAND	(BOD).	Which of the following	ıg		
statements are correct?										
(A)	The amount of BOD in the water is a measure of the amount of organic material in the water, in									
	the terms of how much oxygen will be required to break it down biologically.									
(B)	Clean water would have BOD value of more than 17 ppm whereas highly polluted water could									
	have a BOD value of less than 5 ppm.									
(C)	Clean water would have BOD value of less than 5 ppm whereas highly polluted water could have									
	a BOD value of more than 17 ppm.									
(D)	Clean water and polluted water both have BOD value of 5 ppm.									
39. What is % by volume occupied by CO_2 in atmosphere?										
(A)	Less than 1%	(B)	1% - 2%	(C)	5%	(D)	5% - 10%			
70. Depletion of ozone layer causes :										
(A)	Skin cancer	(B)	blood cancer	(C)	Cataract	(D)	Sunburn			
	(C) If the co (A) The am of a sa statement (A) (B) (C) (D) What is (A) Depletic	(C) Water soluble in If the concentration of C (A) 10 The amount of oxygen in of a sample of water statements are correct of the terms of how the terms of how have a BOD value of (C) Clean water work a BOD value of (D) Clean water and What is % by volume of (A) Less than 1% Depletion of ozone layer	(C) Water soluble inorganical of the concentration of dissolved (A) 10 (B) The amount of oxygen required of a sample of water is called statements are correct? (A) The amount of BOD in the terms of how much (B) Clean water would have a BOD value of less (C) Clean water would have a BOD value of more the (D) Clean water and pollute (M) Less than 1% (B) Depletion of ozone layer causes	(C) Water soluble inorganic chemicals If the concentration of dissolved oxygen in water (A) 10 (B) 12 The amount of oxygen required by bacteria to be of a sample of water is called BIOCHEMIC statements are correct? (A) The amount of BOD in the water is a mathematical to be of a sample of water is called BIOCHEMIC. (B) Clean water of BOD in the water is a mathematical to be of how much oxygen will be resulted by the company of the co	(C) Water soluble inorganic chemicals (D) If the concentration of dissolved oxygen in water is below (A) 10 (B) 12 (C) The amount of oxygen required by bacteria to break dow of a sample of water is called BIOCHEMICAL OXY statements are correct? (A) The amount of BOD in the water is a measure of the terms of how much oxygen will be required to the terms of how much oxygen will be required to have a BOD value of less than 5 ppm. (C) Clean water would have BOD value of less than a BOD value of more than 17 ppm. (D) Clean water and polluted water both have BOD what is % by volume occupied by CO ₂ in atmosphere? (A) Less than 1% (B) 1% - 2% (C) Depletion of ozone layer causes:	(C) Water soluble inorganic chemicals (D) Excessive phytomatic fit the concentration of dissolved oxygen in water is below X ppm, the group (A) 10 (B) 12 (C) 6 The amount of oxygen required by bacteria to break down the organic most of a sample of water is called BIOCHEMICAL OXYGEN DEMAND statements are correct? (A) The amount of BOD in the water is a measure of the amount of the terms of how much oxygen will be required to break it down (B) Clean water would have BOD value of more than 17 ppm when have a BOD value of less than 5 ppm. (C) Clean water would have BOD value of less than 5 ppm whereas a BOD value of more than 17 ppm. (D) Clean water and polluted water both have BOD value of 5 ppm. What is % by volume occupied by CO2 in atmosphere? (A) Less than 1% (B) 1% - 2% (C) 5% Depletion of ozone layer causes:	(C) Water soluble inorganic chemicals (D) Excessive phytoplankto If the concentration of dissolved oxygen in water is below X ppm, the growth of final (A) 10 (B) 12 (C) 6 (D) The amount of oxygen required by bacteria to break down the organic matter profice a sample of water is called BIOCHEMICAL OXYGEN DEMAND (BOD). Statements are correct? (A) The amount of BOD in the water is a measure of the amount of organic the terms of how much oxygen will be required to break it down biologics. (B) Clean water would have BOD value of more than 17 ppm whereas highly part a BOD value of less than 5 ppm. (C) Clean water would have BOD value of less than 5 ppm whereas highly part a BOD value of more than 17 ppm. (D) Clean water and polluted water both have BOD value of 5 ppm. What is % by volume occupied by CO2 in atmosphere? (A) Less than 1% (B) 1% - 2% (C) 5% (D)	(C) Water soluble inorganic chemicals (D) Excessive phytoplankton growth If the concentration of dissolved oxygen in water is below X ppm, the growth of fish gets inhibited X is: (A) 10 (B) 12 (C) 6 (D) None of the above The amount of oxygen required by bacteria to break down the organic matter present in a certain volum of a sample of water is called BIOCHEMICAL OXYGEN DEMAND (BOD). Which of the following statements are correct? (A) The amount of BOD in the water is a measure of the amount of organic material in the water, in the terms of how much oxygen will be required to break it down biologically. (B) Clean water would have BOD value of more than 17 ppm whereas highly polluted water could have a BOD value of less than 5 ppm. (C) Clean water would have BOD value of less than 5 ppm whereas highly polluted water could have a BOD value of more than 17 ppm. (D) Clean water and polluted water both have BOD value of 5 ppm. What is % by volume occupied by CO2 in atmosphere? (A) Less than 1% (B) 1% - 2% (C) 5% (D) 5% - 10% Depletion of ozone layer causes:		