	DPP - Daily	Practice	Problems
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Name :	Date :	
Start Time :	End Time :	
CHE	MISTRY	(28)
SYLLAE	US : Environmental Chemistry	
		T: 00 :

Max. Marks: 120

Time : 60 min.

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GENERAL INSTRUCTIONS

- The Daily Practice Problem Sheet contains 30 MCQ's. For each question only one option is correct. Darken the correct circle/ bubble in the Response Grid provided on each page.
- You have to evaluate your Response Grids yourself with the help of solution booklet.
- Each correct answer will get you 4 marks and 1 mark shall be deduced for each incorrect answer. No mark will be given/ deducted if no bubble is filled. Keep a timer in front of you and stop immediately at the end of 60 min.
- The sheet follows a particular syllabus. Do not atlempt the sheet before you have completed your preparation for that syllabus. Refer syllabus sheet in the starting of the book for the syllabus of all the DPP sheets.
- After completing the sheet check your answers with the solution booklet and complete the Result Grid. Finally spend time to analyse your performance and revise the areas which emerge out as weak in your evaluation.

DIRECTIONS (Q.1-Q.30) : There are 30 multiple choice questions. Each question has 4 choices (a), (b), (c) and (d), out of which ONLYONE choice is correct.

Q.1 Biodegradable pollutant is -

- (a) Sewage (b) Mercury
- (c) Plastic (d) Asbestos
- **Q.2** Which of the following is present in highest concentration in exhaust emission?
 - (a) CO₂
 - (b) Hydrocarbons
 - (c) 🛈
 - (d) Oxides of nitrogen

- **Q.3** By what method the quantity of organic pollutants in water can be determined ?
 - (a) Bymcasuring BOD
 - (b) BypH measurement
 - (c) By transparency measurements
 - (d) By measuring the change of colour/CFC
- Q.4 A dental disease characterised by mottling of teeth is due to the presence of a certain chemical element in drinking water. Which is the element ?
 - (a) Fluorine
 - (b) Mercury
 - (c) Boron
 - (d) Chlorinc

Response Grid 1. (a) b c d 2. (a) b c d 3. (a) b c d 4. (a) b c d

Space for Rough Work

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Q.5	Chlorine treatme	ent of water-	Q.11 Aci	id rain is produced by-
	(a) Disinfects b	ykilling germs	(a)	Excess production of NH ₃ by industry and coal gas
	(b) Removes ha	ardness of water	(b)	Excess release of carbon monoxide by incomplete
	(c) Removes al	l the air pollutants		combustion
	(d) All above		(c)	Excess formation of CO_2 by combustion and animal
Q.6	Pollution is risin	g due to-		respiration
	(a) Automobile	es and industries		Excess NO_2 and SO_2 from burning of lossil fuels
	(b) Population	explosion	Q.12110	o and DAN
	(c) Rains		(a)	O ₃ and PAN
	(d) Research in	nstitute	(0)	
Q.7	Sudden mass d	eath of fishes from oxygen depletion is	(C)	PAIN
	(a) Oliootroph	ase of –	(u)	FVC
	(a) Ongouroph		Q.15 wa	Increased dooxygraphics and turbidity
	(c) Eutrophic l		(a) (b)	Decreased turbidity
	(d) Mesotrophi		(0) (c)	Increased ovvacuation
0.8	Continuous sour	age flow into a stream would lead to -	(d)	Increased photosynthesis
Q.0	(a) Increase in	temperature	0 14 Mo	st harmful types of environment pollutants are _
	(h) Algai bloor	n	(2)	Human organic wastes
	(c) Futronhical	tion	(a) (b)	Non-biodegradable chemicals
	(d) Depletion (of oxygen	(c)	Natural nutrients present in excess
0.9	Which of the fe	blowing types of pollution causes the out	(d)	Wastes from feed lots
21	break of jaundic	e?	Q.15 On	e of the pollutants that is generally helping in the early
	(a) Water		deg	radation of the ozone layer is
	(b) Land		(a)	SO ₂
	(c) Thermal		(b)	DDT
	(d) Air		(c)	CO ₂
Q.1	The pollutants of	chlorofluorocarbons are major sources of	(d)	Freons
	air pollution con	tributed by-	Q.16 The	e carbon dioxide content in atmospheric air is about –
	(a) Sewage pol	lutants	(a)	3.34%
	(b) Aerosols		(b)	6.5%
	(c) Industrial e	fluents	(c)	0.034%
	(d) All the abo	ve	(d)	0.34%
		5. abcd 6. abcd	7. a(
	RESPONSE	10.(a)(b)(c)(d) 11.(a)(b)(c)(d)	12.a)(t	
	GRID			

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DPP/ C (28)

Q.17 In c com	oming years, skin relat imon due to –	ed dis	sorders will become more	Q.22	The eff e	atmospheric gas which cannot produce greenhouse ct is :
(a)	Air pollution				(a)	N ₂
(b)	Excessive use of deter	rgents	S		(b)	H ₂ O
(c)	Depletion of ozone la	ycr			(c)	CO ₂
(d)	Water pollution				(d)	0 ₃
Q.18The	term biomagnification	refer	rs to the –	Q.23	The	main pollutant exhausted by aeroplane is
(a)	Increase in population	size			(a)	Fluorocarbons
(b)	Growth of organisms	due to	o food consumption		(b)	СО
(c)	Increase in the cond	centra	ation of nondegradable		(c)	SO ₂
	pollutants as they pass	s throu	ugh food chain		(d)	Carbon tetrachloride
(d)	Blowing up of environ	ment	al issues by man	0.24	Whi	ich pollutant is harmful for 'Taimahal'?
Q.19CO harı	produced by incomple nful effect because it is	te cor s :	mbustion of fixel exerts a		(a)	Hydrogen
(a)	a respiratory inhibitor	ł			(b)	O ₂
(b)	a CO ₂ antagonist				(c)	SO ₂
(c)	carcinogenic				(d)	Chlorine
(d)	corrosive to eye			Q.25	Whi	ich gas is responsible for 'Bhopal Gas Tragedy' in 1984?
0.20Wh	ich of the following	is no	ot a direct atmospheric		(a)	СО
poll	utant?				(b)	methyl isocyanate
(a)	CO				(c)	SO ₂ and NO ₂
(b)	SO ₂				(d)	Ethyl isocyanate
(c)	Hydrocarbons/CH ₄			Q.26	Lea	d is
(d)	CO ₂ & water vapour				(a)	Radiological pollutant
Q.21 'WI	nite lung cancer' is caus	sed by	/		(b)	Sound pollutant
(a)	asbestos	(b)	silica		(c)	Soil pollutant
(c)	textiles	(d)	paper		(d)	Air pollutant

RESPONSE	17.abcd	18. abcd	19.abcd	20.abcd	21. abcd
GRID	22.abcd	23.abCd	24.abCd	25.abcd	26. abcd

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-DPP/C(28) 112 Q.27 The quantity of DDT in food chain Q.29 Which is known as 'third poison of environment' and also creates 'Blue Baby Syndrome'? (a) Decreases (a) Nitrates present in water (b) Remainssanc (b) Phosphates and detergents found in water (c) Increases (c) Cyanide (d) Changes (d) Pesticides Q.28 CFC, which is one of the main reasons behind air pollution, is produced by Q.30 Which is a dangerous radiological pollutant? (a) C¹⁴ (b) S³⁵ (a) Scwage poullutant (b) Acrosols (c) Sr⁹⁰ (d) P³² (c) Industrial remains (d) Above all

 Response Grid
 27.abcd
 28.abcd
 29.abcd
 30.abcd

DAILY PRACTICE PROBLEM SHEET 28 - CHEMISTRY				
Total Questions 30 Total Marks 120				
Attempted Correct				
Incorrect Net Score				
Cut-off Score 40 Qualifying Score 64				
Success Gap = Net Score – Qualifying Score				
Net Score = (Correct × 4) – (Incorrect × 1)				

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DPP/ C (28)

DAILY PRACTICE

PROBLEMS

CHEMISTRY SOLUTIONS

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- (a) Sewage is a biodegradable pollutant as it can be decomposed by micro-organisms either by nature or by suitable treatment. The other options are nonbiodegradable pollutants.
- (2) (c)
- (3) (a) By measuring BOD the quantity of organic pollutants in water can be determined. The total amount of oxygen consumed by micro-organisms (bacteria) in decomposing the organic matter present in a certain volume of a sample of water is called BOD of water.
- (4) (a) Fluorine upto 1 ppm, F⁻ protects teeth against decay. However, concentrations above 2 ppm causes brown mottling of teeth.
- (5) (a) Chlorine treatment of water disinfects by killing genus.
- (6) (a)
- (7) (c) Sudden mass death of fishes from oxygen depletion is more likely in case of eutrophic lake. An eutrophic lake has an excess of phosphate ions in it (due to inflow of nutrients from fertilizers) which results in dense plant population which consumes oxygen and causes oxygen depletion in water. As a result, the fishes start perishing.
- (d) Continuous sewage flow into a stream would lead to depletion of oxygen. Discharge of sewage into water results in excessive phytoplankton growth and the micro-organisms which decompose this organic matter need oxygen. This results in depletion of oxygen in water.
- (9) (a) Water.
- (10) (b) The pollutants chlorofluorocarbons contributed by acrosols are major source of air pollution. Once CFC's are released in the atmosphere, they mix with atmospheric gases, reach stratosphere where they are

broken by UV radiations into C1 free radical which damages the ozone layer.

(11) (d) Acid rains are produced by $excess NO_2$ and SO_2 from burning of fossil fuels. SO_2 and NO_2 after oxidation and reaction with water aremajor contributors to acid rain :

 $2SO_2(g) + O_2(g) + 2H_2O(l) \rightarrow 2H_2SO_4(aq)$ $4NO_2(g) + O_2(g) + 2H_2O(l) \rightarrow 4HNO_3(aq)$

- (12) (a) The common components of photochemical smog are ozone (O₃), nitric ox ide, acrolein, formaldchyde and peroxyacetyl nitrate (PAN).
- (13) (a) Water pollution causes increased deoxygenation and turbidity.
- (14) (b) Most harmful types of environment pollutants are nonbiodegradable chemicals. This is because they are not degraded and their presence even in small amounts in the atmosphere is harmful. They can react with other compounds to produce even more toxic compounds.

The other options are all biodegradable pollutants which can degrade by themselves or by micro-organisms.

- (15) (d) Freens are chlorofluorocarbons (CFC's). In stratosphere, they are broken by UV radiations to produce C1 free radical which destroys ozone layer.
- (16) (c)
- (17) (c) With the depletion of ozone layer, more UV radiations filter into troposphere which leads to ageing of skin, sunburns, skin cancer etc.
- (18) (c)
- (19) (a) CO binds with Hb to form carboxy–Hb, which is much more stable than O_2 –Hb complex. As a result, oxygen carrying capacity of blood is greatly reduced resulting in respiratory problems.
- (20) (d)

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- (21) (c) (22) (a) (23) (a)
- (24) (c) The air around Taj Mahal has fairly high levels of SO_x and NO_x . The result ing acid rain reacts with marble, $CaCO_3$ of Taj Mahal ($CaCO_3 + H_2SO_4 \rightarrow CaSO_4 + H_2O + CO_2$) causing damage to the monument.

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(25)	(b)	(26)	(c)	(27)	(c)
(28)	(b)	(29)	(b)	(30)	(c)