CHAPTER

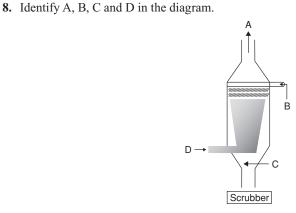


EnvironmentalIssues

PRACTICE QUESTIONS

Pollution

1.	Pollution is any undesir (a) Air	rable change in physical (b) Land		emical or biological Water or soil		acteristics of All of these
2.	Agents which cause po (a) Mutants	llution are known as (b) Carcinogens	(c)	Pollutants	(d)	Allergens
3.		environment (air, water				•
	(a) 1978	(b) 1986	(c)	1981	(d)	1987
4.	What are the effects of (a) Growth retardation(c) Premature death		. ,	Decrease in yield All of these		
5.	Which system of huma (a) Respiratory system(c) Circulatory system	1	(b)	nostly by air polluti Digestive system Excretory system	on?	
6.	Harmful effects of air p (a) Concentration of p (c) Type of organism	-	. /	Duration of exposu	ıre	
7.	The most widely used a (a) Arrester (c) Electrostatic precip			oving particulate ma Scrubber Converters	tter i	s



16.2 Environmental Issues

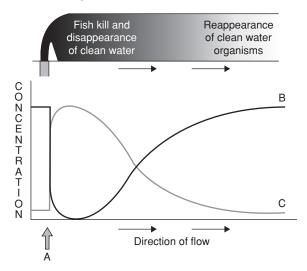
	 (a) A: Dirty air, B: Water line spray, C: Clean air, D: Particulate matter (b) A: Clean air, B: Water line spray, C: Particulate matter, D: Dirty air (c) A: Water line spray, B: Particulate matter, C: Clean air, D: Dirty air (d) A: Particulate matter, B: Dirty air, C: Clean air, D: Water line spray 				
9.	ESP removes approx% of particular power plant. (a) 60 (b) 80	late m	_	thaus	
10.	Which statement is incorrect about ESP (Election (a) Corona produces electrons. (b) Collecting plates are grounded, so it is us (c) Velocity of air between the plates must be (d) Electrodes wires that are maintained at his	ed to a	attract the charged of	-	particle.
11.	Scrubber is used to remove which of the follo (a) SO_2 (b) N_2	owing g		(d)	CO_2
12.	According to CPCB which particulate size ca (a) 2.5 μm (b) 3.5 μm	_	reatest harm to hun 4.5 μm		nealth? 5.2 μm
13.	PM 2.5 or less than that in diameter in air cau (a) Irritation and inflammation in lungs (c) Premature deaths	(b)	Damage to lungs All of these		
14.	is a major cause of air pollution in (a) Factory (c) Smoking	(b)	cities. Automobiles Thermal power pla	ınt	
15.	Automobile pollution is reduced by using (a) Lead-free petrol or diesel (c) Both (a) and (b) 		Catalytic converter None of these	`S	
16.	The metal used in catalytic converter in auton (a) Platinum (b) Palladium		s is Rhodium	(d)	Any of these
17.	What is/are done by catalytic converters? (a) Unburnt hydrocarbons are converted to C (b) CO in converted to CO ₂ . (c) Nitric oxide is changed to N ₂ . (d) All the above	CO ₂ and	1 H ₂ O.		
18.	Motor vehicle equipped with catalytic conver- (a) Lead activates the catalyst (c) Lead increases fuel efficiency	(b)	ould use unleaded placed deactivates can Lead decreases fue	ataly	st
19.	Match the columns.				
	Column-I		Column-II		
	A. Air (Prevention and Control of Pollution)		1. 1987		
	B. Water (Prevention and Control of Pollution C. Noise added as air pollutant	n) Act	2. 1981		

4. 1986

D. Environment (Protection) Act

	(a) A:2, B:3, C:4, D:1 (c) A:4, B:3, C:2, D:1		(b) A:2, B:3, C:1, D:4 (d) A:4, B:3, C:1, D:2	
20.	Noise is an undesirable high (a) Psychological disorder (c) Altered breathing patter		causes all of these exce (b) Increased heart be (d) Sleepiness	
21.	A brief exposes of extremel jet plane or rocket, may dam (a) 80 dB (b)	nage ear drums thus		
22.	Which of these measures ca (a) Areas around hospitals (b) Use of loudspeakers sho (c) Occupational exposure (d) All the above	and schools should bould be restricted to	be made horn-free zone a fixed intensity and fix	xed hours of the day,
23.	In the 1990s Delhi ranked _	among the	41 most polluted cities	s in the world.
	(a) 1st		(b) 2nd	
	(c) 3rd		(d) 4th	
24.	CNG is a better fuel than pe (a) Burns efficiently (b) Cannot be siphoned off (c) Non-carcinogenic and n (d) All of these	and adulterated	RE CNG	
25.	According to Euro II norms,	sulphur should be c	ontrolled ati	in diesel and
	in petrol. (a) 350 ppm, 150 ppm		(b) 50 ppm, 150 ppm	
	(c) 50 ppm, 50 ppm		(d) 350 ppm, 50 ppm	
26.	Four wheelers have to follow 2010?			ies of India since April
	(a) 11 (b)	12	(c) 13	(d) 14
27.	Bharat stage III is applicable	e to 2 and 3 wheeler	s throughout the country	ry since
	(a) 2008 (b)	2009	(c) 2010	(d) 2011
28.	What is the minimum perceuse?			ewage unfit for human
	(a) 0.1% (b)	1%	(c) 3%	(d) 10%
29.	Match the columns for the c	omposition of waste	e water which contains	0.1% impurities.
	Column-I	Column-II		
	A. Suspended solid		dium, calcium and pho	osphate
	B. Colloidal material		cteria, cloth and paper	
	C. Dissolved material	3. Sand, silt and cl	ay	
	(a) A:1, B:2, C:3		(b) A:3, B:2, C:1	
	(c) A:2, B:3, C:1		(d) A:1, B:3, C:2	

30. Identify A, B and C in the figure.



- (a) A: Dissolved oxygen, B: BOD, C: Sewage discharge
- (b) A: Sewage discharge, B: Dissolved oxygen, C: BOD
- (c) A: BOD, B: Sewage discharge, C: Dissolved oxygen
- (d) A: Dissolved oxygen, B: Sewage discharge, C: BOD
- **31.** Which of the following is the most difficult to remove from waste water?
 - (a) Suspended solids
- (b) Dissolved salts (d) All of these
- (c) Biodegradable waste matter
- **32.** Select the incorrect matching. (a) BOD → Biochemical Oxygen Demand
 - (b) JFM \rightarrow Joint Forest Management
 - (c) $DU \rightarrow Degree of Unsaturation$
 - (d) $FOAM \rightarrow Friends$ of the Arcata March
- **33.** What happens to sewage water from the point of sewage discharge?
 - (a) Dissolved oxygen ↓eses

- (b) Mortality of fish ↑eses
- (c) Biological oxygen demand ↑eses
- (d) All of these
- 34. World's most problematic aquatic weed is
 - (a) Terror of Bengal

(b) Water hyacinth

(c) Eichhornia crassipes

- (d) All of these
- **35.** Water hyacinth is introduced in India for
 - (a) High growth rate

(b) Beautiful flowers

(c) Disease resistance gene

(d) All of these

- 36. The presence of large amount of nutrients in water causes excessive growth of planktonic (free-floating) algae, called. This is called
 - (a) Red tide

(b) Bio-magnification

(c) Algal bloom

(d) Biofortification

37.	Which of these diseases is/are caused by contar (a) Dysentery (c) Cholera	(b)	ted water? Typhoid, jaundice All of these
38.	Heavy metal in waste water comes from (a) Petroleum industries (c) Metal extraction industries		Paper manufacturing industries All of these
39.	Which of the following are heavy metals (dense (a) Hg, Cd (c) Pb	(b)	5gm/cc)? Cu All of these
40.	Increase in concentration of the toxic substance (a) Biofortification (c) Bioinformatics	(b)	successive trophic levels is known as Biowar Biomagnification
41.	The phenomena of biomagnification in aqua presence of (a) Hg (c) Both (a) and (b)	(b)	ecosystem is well-known for the rising DDT None of these
42.	If the water contains 0.003ppb of DDT then fiss (a) 0.04 ppm (c) 0.5 ppm	(b)	ting birds contain what level of DDT? 2 ppm 25 ppm
43.	High concentration of DDT causes decline in(a) Fish population(c) Small fish population		200 plankton population Bird population
44.	Which of these is/are true about DDT? (a) Undergo biomagnifications in aquatic ecos (b) Disturbs calcium metabolism in bird. (c) Causes thinning of eggshell leads to prema (d) All the above	-	
45.	Natural aging of lake by nutrient enrichment of (a) Biofortification(c) Biogeochemical cycle	(b)	water is Biomagnification Eutrophication
46.	Eutrophication occurs because of (a) Ca and Mg (c) Carbon and oxygen		Nitrogen and phosphorous Hg and DDT
47.	Natural aging of lake depends on (a) Climatic factors(c) Nutrient content of lake		Size of lake All of these
48.	Accelerated aging process of lake, because of p industries and homes, is known as (a) Cultural eutrophication (c) Both a and b	(b)	tants from activities like effluents from the Accelerated eutrophication Biomagnification

16.6 Environmental Issues

- **49.** Which of the following is/are caused by algal bloom in a water body?
 - (a) Scum
 - (b) Unpleasant odour
 - (c) Robbing the water of dissolved oxygen
 - (d) All of these
- **50.** Select the correct statement from the following.
 - (A) Thermal wastewater eliminates or reduces the number of organisms sensitive to high temperature.
 - (B) In a young lake the water is cold and clear supporting little life.
 - (C) DDT disturbs calcium metabolism in birds, which causes thinning of eggshell and their premature breaking, eventually causing decline in bird population.
 - (D) Terror of Bengal grows abundantly in eutrophic water bodies.
 - (a) A and B only

(b) C and D only

(c) A and D only

- (d) A, B, C and D all
- **51.** Which of these facts are true with regard to wastewater treatment in the town of Arcata, California?
 - (a) The cleaning occurs in two stages.
 - (b) In the first stage, conventional sedimentation, filtering and chlorine treatment are given.
 - (c) In the second stage biologists developed a series of six connected marshes of over 60 hectors of marshland, appropriate plant, algae, fungi and bacteria are seeded in this area, which neutralizes, absorb and assimilates the pollutants.
 - (d) All the above
- **52.** Dry composting toilet is useful in handling human excreta because this is
 - (a) Practical and hygienic

(b) Efficient

(c) Cost-effective

- (d) All of these
- 53. 'EcoSan' toilets have been made effective in many areas of:
 - (a) Kerala

(b) Sri Lanka

(c) Both (a) and (b)

(d) None of these

- **54.** Find the incorrect statement.
 - (a) Sanitary landfills were adopted as the substitute for open burning dumps.
 - (b) Seepage of chemical from landfills pollutes the underground water resources.
 - (c) All waste that we generate can be categorized into three types, i.e., bio-degradable, recyclable and non-biodegradable.
 - (d) Open dumps inhibit breeding of rats and flies.
- **55.** Select the correct statement.
 - (A) Use of incinerator is crucial to the disposal of hospital waste.
 - (B) Recycling is the only solution for the treatment of e-waste.
 - (C) Fish-eating birds containing 2ppm DDT become agents of biomagnifications.
 - (D) Polybend, is a fine powder of bitumen.
 - (a) A and B only

(b) B and C only

(c) C and D only

- (d) A, B and C only
- 56. Road laid by polyblend with bitumen have all of the following properties except
 - (a) More water repellant

(b) Increases road life by a factor of three

(c) Less bleeding in summer

(d) Increases the cost of road laying

57.	Who prepared polyblend? (a) Ahmed Khan(c) Amrita Devi		Ramesh Chand Sunderlal Bahu		
58.	Who created Haryana Kisan Welfare C (a) Ahmed Khan (c) Amrita Devi	(b)	Ramesh Chand Sunderlal Bahu		
59.	Integrated organic farming is a(a) non-cyclical, zero waste (c) non-cyclical, wasteful	(b)	procedure cyclical, zero v cyclical, waste	vaste	
60.	Accidental leakage in nuclear plants o (a) Three mile island(c) Bhopal	(b)	Chernobyl Both (a) and (b))	
61.	The problem with the use of nuclear entrangement (a) Accidental leakage (c) Both (a) and (b)	(b)	Safe disposal o	of radioactive waste	
62.	Which of these is/are true with regard (a) It causes mutation at very high rat (c) Low doses causes diseases like ca	e (b)	diation coming from nuclear waste? High dose of radiation is lethal All of these		
63.	How deep should nuclear waste after so within the rocks below the earth's surf (a) 100 m (b) 200 m	ace?	reatment be buri	ed (in shielded contain (d) 500 m	ners)
Gree	n House Effect and Global Warming				
64.	Without greenhouse effect the average	ge temperatu	re at surface o	f Earth would have	been
	$\overline{(a) -0^{\circ}C}$ (b) 15°C	(c)	−18°C	(d) 6°C	
65.	Earth's present average temperature is (a) 0°C (b) 15°C		−18°C	(d) 6°C	
66.	What part of the incoming solar radiat heating it?		_		rface
(5	(a) 1/4 (b) 1/2	` '	1/3	(d) 2/3	
0/.	Which gas contributes the maximum t (a) CH ₄ (b) CO ₂		CFCs	(d) N ₂ O	
68.	What is the contribution of methane go (a) 60% (b) 20%		global warming 14%	g? (d) 6%	
69.	During the past century, the temperature (a) 0.6° C (b) 5° C		is increased by _6°C	(d) 1°C	
70.	Greenhouse gases absorb r. earth. The cycle continues till the earth (a) long wave (infrared), long wave (c) long wave (infrared), short wave (n's surface ha (b)	short wave (uv	radiation to emit.	s the

16.8 Environmental Issues

71.	Rise in temperature is leading to deleterious change such as (a) Ozone depletion (c) Water logging	(b)	es in the environment and resulting is odd Greenhouse effect El Nino effect
72.	We can control global warming by the followin (a) Cut down use of fossil fuel (c) Improving efficiency of energy uses	(b)	eans except Slow down growth of human population Deforestation
73.	The thickness of ozone is measured in terms of (a) BOD (c) DU	(b)	D.O. ROP
74.	Bad ozone is formed in (a) Stratosphere (c) Troposphere		Ionosphere Lithosphere
75.	Which of the following biomolecule absorbs U (a) DNA (c) Both (a) and (b)	(b)	diation? Protein Carbohydrates
76.	Good ozone is found in (a) Stratosphere (c) Troposphere		Ionosphere Lithosphere
77.	Ozone degradation is done by (a) DDT (c) $\mathrm{CH_4}$		CFCs CO ₂
78.	In stratosphere, UV rays act on CFCs (Chlorofl to ozone depletion? (a) 'F' atoms (c) 'H' atoms	(b)	Carbons) and release which atom leading 'Cl' atoms 'C' atoms
79.	Which of these is incorrect about ozone depletical CFCs releases 'Cl' atom causes degradation (b) 'Cl' atoms acts as catalyst. (c) 'Cl' atom is not consumed in the reaction. (d) It is minimum over Antarctica region		O_3 .
80.	Antarctic region has a large area of thinned ozo (a) Dobson unit (c) Black hole	(b)	ayer, commonly known as Ozone hole All of these
81.	UV-B radiation causes (a) Damage to DNA (c) Skin cancer		Aging of skin All of these
82.	In human eye, cornea absorbs UV- B radiation of cornea, known as (a) Night blindness (c) Epicanthus	(b)	a high dose of UV-B causes inflammation Xerophthalmia Snow-blindness

83.		eaty was signed at Mor fozone depleting substa	nces (b)		(effe	ective in 1989) to
84.			r between (b) Late February and early April (d) Late October and early December			
85.	(JFM)?	vernment of India introd		_		_
	(a) 1974	(b) 1980	` ′	1990	(a)	1970
86.	'Chipko movement' wa (a) Bishnois	as started by which come (b) Garhwal		ity? Sahiwal	(d)	Jain
87.	How many daughters of (a) 1	of Amrita Devi were cut (b) 2	dow (c)	-	(d)	4
88.	rural areas that have sh (a) Padma Bhushan (b) Chipko Award (c) Bharat Ratna	as recently instituted whown extra-ordinary countries of the work of the contribution of Wildlife Protection A	rage	and dedication in p		
89.		te, almost per _ per cent in the tempera (b) 60, 20	ate re			the tropics, com-
90.	-	(1988) of India has recomper cent for the hills. (b) 33, 67		40, 60		nt forest cover for 67, 33
91.	By the end of 20th cen (a) 30%	tury India lost how muc (b) 19.4%		rest cover?	(d)	10.6
92.	Jhum cultivation (slash (a) North-eastern state (c) Southern state	and burn agriculture) is	(b)	nd in which part of Western state Desert state	India	a?
93.	(a) Farmers cut down(b) Ash is used as fert	ents is/are true about sla trees of the forest and be ilizer. Irming or cattle grazing.	urn t			
94.	Deforestation causes at (a) Soil erosion and lo (b) Desertification (c) Increase CO ₂ , cond (d) Undisturbed hydro	ess of biodiversity	è			

16.10 Environmental Issues

- **95.** Which of these statements is/are true about reforestation?
 - (a) It is a process of restoring forest
- (b) It may occur naturally
- (c) It can be sped up by planting trees
- (d) All of these
- **96.** Soil erosion occurs because of
 - (a) Over-cultivation
 - (b) Unrestricted grazing
 - (c) Deforestation and poor irrigation practice
 - (d) All of these
- 97. Problems which came with Green Revolution are
 - (a) Water logging

(b) Increased soil salinity

(c) Both (a) and (b)

- (d) None of these
- 98. Irrigation without proper drainage leads to
 - (a) Decreased soil salinity

(b) Water logging

(c) Increased yield of crop

- (d) Increased aeration in soil
- 99. Desertification is a major problem nowadays, mainly due to
 - (a) Over grazing

(b) Over-cultivation

(c) Increased urbanization

(d) Water logging

100. Match the columns.

Column-I	Column-II
A. DU	1. Dobson Unit
B. CFCs	2. Chloro Fluoro Carbons
C. BOD	3. Biological Oxygen Demand
D. PIL	4. Public Interest Litigation
E. CNG	5. Compressed Natural Gas

(a) A:1, B:3, C:2, D:4, E:5

(b) A:4, B:3, C:2, D:1, E:5

(c) A:1, B:2, C:3, D:4, E:5

(d) A:1, B:2, C:4, D:3, E:5

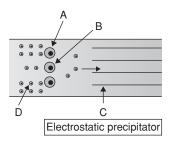
- **101.** Select the incorrect match.
 - (a) El Nino effect—odd climatic changes
 - (b) Radioactive leakage—Three Mile Island
 - (c) Biomagnification—Hg and DDT
 - (d) Haryana Kisan Welfare Club—Ahmed Khan
- **102.** Which among these is the most common source of pollution of water bodies?
 - (a) Waste from thermal power plant
 - (b) Effluents from chemical factories
 - (c) Hospital waste
 - (d) Domestic sewage
- **103.** Air pollution primarily results from
 - (a) Deforestation

(b) Forestation

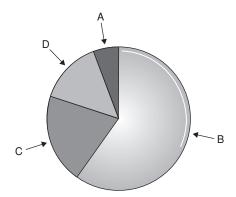
(c) Burning of fossil fuel

(d) Eutrophication

104. Identify A, B, C and D in this figure.



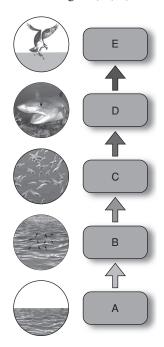
- (a) A: Discharge corona, B: Negatively charged wire, C: Collection plate grounded, D: Dust particles
- (b) A: Dust particles, B: Discharge corona, C: Negatively charged wire, D: Collection plate grounded
- (c) A: Negatively charged wire, B: Discharge corona, C: Collection plate grounded, D: Dust particles
- (d) A: Collection plate grounded, B: Dust particles, C: Negatively charge wire, D: Discharge corona
- **105.** What is the relative contribution (A, B, C, D) of various greenhouse gases according to the given pi-chart?



- (a) A: N₂O (6%), B: Carbon dioxide (60%), Methane (25%), D: CFCs (14%)
- (b) A: Methane (25%), B: CFCs (14%), C: N₂O (6%), D: Carbon dioxide (60%)
- (c) A: Carbon dioxide (6%), B: N₂O (6%), C: Methane (25%), D: CFCs (14%)
- (d) A: CFCs (14%), B: Carbon dioxide (60%), C: Methane (25%), D: N₂O (6%)

16.12 Environmental Issues

106. What is the concentration of DDT in stages A, B, C, D and E in the figure?



The above diagram shows the biomagnification of DDT:

- (a) A: Water (DDT 0.003 ppm), B: Fish-eating birds (DDT 25 ppm), C: Small fish (DDT 0.5 ppm), D: Large fish (DDT 2 ppm), E: Zooplankton (DDT 0.04 ppm)
- (b) A: Fish-eating birds (DDT 25 ppm), B: Large fish (DDT 2 ppm), C: Small fish (DDT 0.5 ppm), D: Zooplankton (DDT 0.04 ppm), E: Water (DDT 0.003 ppb)
- (c) A: Water (DDT 0.003 ppb), B: Zooplankton (DDT 0.04 ppm), C: Small fish (DDT 0.5 ppm), D: Large fish (DDT 2 ppm), E: Fish-eating birds (DDT 25 ppm)
- (d) A: Small fish (DDT 0.5 ppm), B: Large fish (DDT 2 ppm), C: Zooplankton (DDT 0.04 ppm), D: Water (DDT 0.003 ppm), E: Fish-eating birds (DDT 25 ppm)

ASSERTION AND REASON QUESTIONS

Read the assertion and reason carefully to mark the correct option out of the options given below:

- (a) If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- (b) If both the assertion and reason are true but the reason is not a correct explanation of the assertion.
- (c) If the assertion is true but the reason is false.
- (d) If both the assertion and reason are false.

107. Assertion: Noise is nothing but undesirable high level of sound.

Reason: Noise causes psychological and physiological disorder in humans.

108. Assertion: CNG is better fuel than diesel.

Reason: CNG burns most efficiently and is cheaper than petrol.

109. Assertion: Presence of large amounts of nutrients in waters also causes excessive growth of planktonic (free-floating) algae, called algal bloom.

Reason: Algal bloom imparts a distinct colour to the water bodies.

110. Assertion: Water hyacinth is an aquatic weed.

Reason: They grow abundantly in eutrophic water bodies.

111. Assertion: DDT and Hg undergoes biological magnification.

Reason: Hg and DDT are not metabolized and excreted by the body of organisms.

112. Assertion: Sanitary landfills is also not a good method for disposal of solid wastes.

Reason: These landfills causes pollution of underground water resources due to seepage of chemicals.

113. Assertion: Nuclear energy is a non-polluting way for generating electricity.

Reason: Nuclear waste is not at all dangerous for organism.

114. Assertion: UV rays are highly injurious to living organism.

Reason: DNA proteins of living organism preferentially absorb UV rays and its high energy breaks the chemical bonds within these molecules.

115. Assertion: Large area of thinned ozone layer particularly marked over the Antarctic region is known as ozone hole.

Reason: CFCs causes ozone depletion.

116. Assertion: Deforestation may cause desertification.

Reason: It causes, loss of biodiversity, disturbs hydrological cycle, causes soil erosion, may lead to desertification in extreme cases.

117. Assertion: Water logging and soil salinity are some of the problems arises in the wake of green revolution.

Reason: Increased urbanisation is also responsible for desertification.

118. Assertion: UV-Radiation can cause skin cancer.

Reason: UV-B can cause mutation in skin cell.

119. Assertion: Ozone in stratosphere is called good ozone.

Reason: This ozone absorb UV-radiation coming from sun, thus act as shield.

120. Assertion: Integrated organic farming is cyclical zero waste procedure.

Reason: In integrated organic farming waste product from one process is cycled as nutrients for other process.

121. Assertion: Irreparable computers and other electronic goods are known as electronic wasters (e-wastes)

Reason: Recycling is the only solution for treatment of e-waste.

122. Assertion: Dry composting toilets reduce the need for chemical fertilizers.

Reason: By composting method human excreta can be reduced into natural fertilizers.

16.14 Environmental Issues

123. Assertion: Sewage agriculture and industrial waste accelerate the process of eutrophication. **Reason:** Thus waste contains nitrates and phosphates, which acts as plant nutrient.

124. Assertion: Use of DDT as insecticide cause decline in bird population.

Reason: DDT disturb calcium metabolism in birds, which cause thinning of eggshell and their premature breaking.

125. Assertion: Catalytic converter is useful for reducing emission of poisonous gases from automobiles.

Reason: Catalytic converter converts unburnt HCs in CO_2 and water and CO and NO into CO_2 and N_2 .

PREVIOUS YEAR QUESTIONS

		- FILVIOUS IL	.An QU	LSTIUNS —	
1.	A renewable exhaus	tible natural resource is	;		[AIPMT PRE 2010]
	(a) Coal		(b)	Petroleum	[All WITTRL 2010]
	(c) Minerals		` ′	Forest	
2.	dB is a standard abb	reviation used for the q	mantitat	ive expression of	
	ab is a standard doo	reviation asea for the q	dantitut	ive expression of	[AIPMT PRE 2010]
	(a) The density of b(c) The dominant b	pacteria in a medium		A particular pollu A certain pesticide	tant
			` ′	•	
3.	The two gases making	ng highest relative cont	ribution	to the greenhouse	-
	(a) CO ₂ and CH ₄		(b)	CH ₄ and NO ₂	[AIPMT PRE 2010]
	(c) CFCs and N ₂ O			CO ₂ and N ₂ O	
4.	'Good ozone' is fou	and in the			
				[AIPMT MAINS 2011]
	(a) Mesosphere			Troposphere	
	(c) Stratosphere		(d)	Ionosphere	
5.	Which one of the fo	llowing pairs of gases a	ire the m	najor cause of 'Gree	en house effect'? [AIPMT PRE 2011]
	(a) CO ₂ and CO		(b)	CFCs and SO ₂	[
	(c) CO_2 and N_2O			CO ₂ and O ₃	
6.	Which one of the fo	llowing expanded form	s of the	following acronym	s is correct?
		<i>U</i> 1		2 ,	[AIPMT PRE 2011]
	(a) UNEP	United Nations Enviro	onmenta	al Policy	-
	(b) EPA	Environmental Polluti	ion Agei	ncy	
	(c) IUCN	International Union for	or Conse	ervation of Nature a	and Natural Resources

International Penal for Climate Change

(d) IPCC

7. Which one of the following statements is wrong in case of Bhopal gas tragedy?

				, ,	[AIPMT PRE 2011]
	(b) (c)	Thousands of human beings died. Radioactive fallout engulfed Bhopal. It took place in the night of December 2/3, Methyl isocyanate gas leakage took place.			[
8	Fut	rophication is often seen in			
0.	Lui	ropineation is often seen in			[AIPMT PRE 2011]
		Fresh water lakes Mountains		Ocean Deserts	
9.	In a	an area where DDT had been used extensivel	ly the	population of birds	declined significantly
		ause			,
					[AIPMT PRE 2012]
		Birds stopped laying eggs.			
		Earthworms in the area got eradicated.			
		Cobras were feeding exclusively on birds. Many of the birds eggs laid, did not hatch.			
10.	Wh	ich one of the following is a wrong stateme	ent?		FAIDATE DDE 20121
	(b) (c)	Most of the forests have been lost in tropic Ozone in upper part of atmosphere is harm Greenhouse effect is a natural phenomenor Eutrophication is a natural phenomenon in	nful to n	animals.	[AIPMT PRE 2012]
11.	Me	asuring Biochemical Oxygen Demand (BO)	D) is	a method used for	
	(b) (c)	Estimating the amount of organic matter in Working out the efficiency of oil driven aut Measuring the activity of saccharomyces oscale. Working out the efficiency of RBCs about	tomoł cerevi	oile engines. siae in producing c	
12.	Kyo	oto Protocol was endorsed at			
		G. D.A	<i>a</i> :	G D 5	[AIPMT 2013]
		CoP-3	` '	CoP-5	
	(c)	CoP-6	(a)	CoP-4	
13.	Glo	obal warming can be controlled by			[AIPMT 2013]
	(a)	Reducing deforestation, cutting down the u	use of	fossil fuel.	[All WI 2013]
	(b) (c)	Reducing reforestation, increasing the use Increasing deforestation, slowing down the Increasing deforestation, reducing the effic	of fos	sil fuel. th of human popula	ntion.
14.	The	e Air Prevention and Control of Pollution Ac	ct can	ne into force in	
	(a)	1975 1985	(b)		[AIPMT 2013]

15.	The zone of atmosphere in which the ozone lay	er is present is called	
	() T	4) 35	[AIPMT 2014]
	(a) Ionosphere	(b) Mesosphere	
	(c) Stratosphere	(d) Troposphere	
16.	A scrubber in the exhaust of a chemical indust	rial plant removes	
			[AIPMT 2014]
	(a) Gases like sulphur dioxide.	1	
	(b) Particulate matter of the size 5 micrometre	e or above.	
	(c) Gases like ozone and methane.(d) Particulate matter of the size 2.5 micromet	re or less	
17.	Rachel Carson's famous book 'Silent Spring' is	s related to	[AIDMT 2015]
	(a) Pastiaida pollution	(b) Noise Pollution	[AIPMT 2015]
	(a) Pesticide pollution(c) Population explosion	(d) Ecosystem managem	ent
		. ,	
18.	Which of the following is not one of the primar		th greater UV radia-
	tion through the atmosphere due to depletion of	i stratospheric ozone?	[AIPMT 2015]
	(a) Increased skin caner		
	(b) Reduced immune system		
	(c) Damage to eyes		
	(d) Increased liver cancer		
10	TI IDI C CD 4: 1: 4 1		
19.	The UN conference of Parties on climate chan	ge in the year 2011 was hel	ld at
19.	The UN conference of Parties on climate chan	ge in the year 2011 was hel	ld at [AIPMT 2015]
19.	(a) Poland	ge in the year 2011 was held (b) South Africa	
19.			
	(a) Poland	(b) South Africa (d) Qatar	[AIPMT 2015]
	(a) Poland (c) Peru	(b) South Africa (d) Qatar ge in the year 2012 was hel	[AIPMT 2015]
	(a) Poland(c) PeruThe UN conference of Parties on climate change(a) Doha	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima	[AIPMT 2015]
	(a) Poland(c) PeruThe UN conference of Parties on climate change	(b) South Africa (d) Qatar ge in the year 2012 was hel	[AIPMT 2015]
20.	(a) Poland(c) PeruThe UN conference of Parties on climate change(a) Doha	(b) South Africa (d) Qatar ge in the year 2012 was hel (b) Lima (d) Durban	[AIPMT 2015] ld at [RE-AIPMT 2015]
20.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo 	(b) South Africa (d) Qatar ge in the year 2012 was hel (b) Lima (d) Durban spheric concentration of	[AIPMT 2015]
20.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO 	(b) South Africa (d) Qatar ge in the year 2012 was hel (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO	[AIPMT 2015] ld at [RE-AIPMT 2015]
20. 21.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (b) O₃ and dust 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂	[AIPMT 2015] Id at [RE-AIPMT 2015]
20. 21.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015]
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (c) O₃ and dust Increase in the concentration of the toxicant at 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is	[AIPMT 2015] Id at [RE-AIPMT 2015]
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (b) O₃ and dust Increase in the concentration of the toxicant atmospherical contents. (a) Biodeterioration 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is (b) Biotransformation	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015]
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (b) O₃ and dust Increase in the concentration of the toxicant atmospherical cycling 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is (b) Biotransformation (d) Biomagnification	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015] s known as [RE-AIPMT 2015]
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (b) O₃ and dust Increase in the concentration of the toxicant atmospherical contents. (a) Biodeterioration 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is (b) Biotransformation (d) Biomagnification	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015] s known as [RE-AIPMT 2015] on the environment?
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate changes (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmost (a) SO₃ and CO (b) O₃ and dust Increase in the concentration of the toxicant atmost atm	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is (b) Biotransformation (d) Biomagnification adicators of SO ₂ pollution is	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015] s known as [RE-AIPMT 2015]
20.21.22.	 (a) Poland (c) Peru The UN conference of Parties on climate change (a) Doha (c) Warsaw Acid rain is caused by the increase in the atmo (a) SO₃ and CO (b) O₃ and dust Increase in the concentration of the toxicant atmospherical cycling 	(b) South Africa (d) Qatar ge in the year 2012 was held (b) Lima (d) Durban spheric concentration of (b) CO ₂ and CO (d) SO ₂ and NO ₂ successive trophic levels is (b) Biotransformation (d) Biomagnification	[AIPMT 2015] Id at [RE-AIPMT 2015] [RE-AIPMT 2015] s known as [RE-AIPMT 2015] on the environment?

24.	Eutrophication of water bodies leading to killing		non-availability of: [RE-AIPMT 2015]
	(a) Light(c) Oxygen	(b) Essential minerals(d) Food	[RE 711 WIT 2013]
25.	Joint Forest Management Concept was introdu (a) 1960s (c) 1980s	ced in India during: (b) 1970s (d) 1990s	[NEET - I, 2016]
26.	Depletion of which gas in the atmosphere can	lead to an increased inciden	ce of skin cancers: [NEET - I, 2016]
	(a) Nitrous oxide(c) Ammonia	(b) Ozone(d) Methane	[,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
27.	A river with an inflow of domestic sewage rich (a) Drying of the river very soon due to algal (b) Increased population of aquatic food web (c) An increased production of fish due to bio (d) Death of fish due to lack of oxygen	bloom organisms	t in: [NEET - I, 2016]
28.	Biochemical Oxygen Demand (BOD) may not receiving effluents from (a) Dairy industry (c) Sugar industry	be a good index for polluti(b) Petroleum industry(d) Domestic sewage	on for water bodies [NEET - II, 2016]
29.	A lake which is rich in organic waste may resu (a) Drying of the lake due to algal bloom (b) Increased population of fish due to lots of (c) Mortality of fish due to lack of oxygen (d) Increases population of aquatic organisms	nutrients	[NEET - II, 2016]
30.	The highest DDT concentration in aquatic food (a) Seagull (c) Cell	d chain shall occur in (b) Crab (d) Phytoplankton	[NEET - II, 2016]
	NCERT EXEMPLA	R QUESTIONS	
1.	Non-biodegradable pollutants are created by (a) Nature	(b) Excessive use of resor	urces
	(c) Humans	(d) Natural disasters	
2.	According to the Central Pollution Control Bogreat harm to human health are of diameter (a) 2.50 micrometre (b) 10.00 micrometre	(b) 5.00 micrometre (d) 7.5 micrometre	onsible for causing
3.	The material generally used for sound proofing rium, etc., is	g of rooms like a recording	studio and audito-

(c) Wood

(d) Styrofoam

(b) Coir

(a) Cotton

16.18 Environmental Issues

4.	Compressed Natural C (a) Propane	Gas (CNG) is (b) Methane	(c)	Ethane	(d)	Butane			
5.	The world's most prob (a) Azalia	lematic aquatic weed is (b) Wolffia	(c)	Eichhornia	(d)	Trapa			
6.	Which of the following (a) SO ₂	g causes biomagnification (b) Mercury		DDT	(d)	Both (b) and (c)			
7.	The expanded form of (a) Dichloro diphenyl (c) Dichlorodiphenyl	trichloroethane) Dichloro diethyl trichloroethane) Dichloro diphenyl tetrachloroacetate					
8.	Which of the followin (a) Cotton	g material takes the long (b) Paper		me for biodegradat Bone		Jute			
9.	 Choose the incorrect statement. (a) The Montreal protocol is associated with the control of emission of ozone depleting substances. (b) Methane and carbon dioxide are greenhouse gases. (c) Dobson units are used to measure oxygen content. (d) Use of incinerators is crucial to the disposal of hospital wastes. 								
10.	Among the following which one causes more indoor chemical pollution? (a) Burning coal (b) Burning cooking gas (c) Burning mosquito coil (d) Room spray								
11.	The green scum seen in (a) Blue green algae (c) Green algae	(b)	Red algae Both (a) and (c)						
12.	The loudness of a sour (a) 150 dB	nd that a person can with (b) 215 dB		d without discomfor 30 dB		about 80 dB			
13.	 The major source of noise pollution, worldwide is due to (a) Office equipment (b) Transport system (c) Sugar, textile and paper industries (d) Oil refineries and thermal power plan 								
14.	Match correctly the fo i. Environment Prot ii. Air Prevention and iii. Water Act iv. Amendment of Air The correct match (a) i-C, ii-D, iii-A, iv- (c) i-D, ii-A, iii-B, iv-	et (b)	Errect option: A. 1974 B. 1987 C. 1986 D. 1981 b) i-A, ii-C, iii-B, iv-D d) i-C, ii-D, iii-B, iv-A						
15.	Catalytic converters a	are fitted into automobil	les to	reduce the emiss	ion (

- **16.** Why is it necessary to remove sulphur from petroleum products?
 - (a) To reduce the emission of sulphur dioxide in exhaust fumes.
 - (b) To increase the efficiency of automobiles engines.
 - (c) To use sulphur removed from petroleum for commercial purposes.
 - (d) To increase the life span of engine silencers.
- 17. Which one of the following impurities is the easiest to remove from wastewater?
 - (a) Bacteria

(b) Colloids

(c) Dissolved solids

(d) Suspended solids

(d) A-iii, B-i, C-iv, D-i

- **18.** Which one of the following diseases is not due to contamination of water?
 - (a) Hepatitis-B
- (b) Jaundice
- (c) Cholera
- (d) Typhoid
- **19.** Nuisance growth of aquatic plants and bloom-forming algae in natural waters is generally due to the high concentrations of
 - (a) Carbon
- (b) Sulphur
- (c) Calcium
- (d) Phosphorus

- 20. Algal blooms impart a distinct colour to water due to
 - (a) Their pigments

(c) A-iii, B-iv, C-i, D-ii

- (b) Excretion of coloured substances
- (c) Formation of coloured chemicals in water facilitated by physiological degradation of algae.
- (d) Absorption of light by algal cell wall.
- 21. Match the items in column-I and column-II and choose the correct option:

Column-I A. UV i. Biomagnification B. Biodegradable organic matter ii. Eutrophication C. DDT iii. Snow blindness D. Phosphates iv. BOD The correct match is: (a) A-ii, B-i, C-iv, D-iii (b) A-iii, B-ii, C-iv, D-i

- 22. In the textbook you came across the 'Three Mile Island' and 'Chernobyl' disasters associated with the accidental leakage of radioactive wastes. In India we had Bhopal gas tragedy. It is associated with which of the following?
 - (a) CO,
- (b) Methyl isocyanate (c) CFC's
- (d) Methyl cyanate

Answer Keys									
Practice Questions									
1. (d)	2. (c)	3. (b)	4. (d)	5. (a)	6. (d)	7. (c)	8. (b)	9. (c)	10. (d)
11. (a)	12. (a)	13. (d)	14. (b)	15. (c)	16. (d)	17. (d)	18. (b)	19. (b)	20. (d)
21. (c)	22. (d)	23. (d)	24. (d)	25. (a)	26. (c)	27. (c)	28. (a)	29. (b)	30. (b)
31. (b)	32. (c)	33. (d)	34. (d)	35. (b)	36. (c)	37. (d)	38. (d)	39. (d)	40. (d)
41. (c)	42. (d)	43. (d)	44. (d)	45. (d)	46. (b)	47. (d)	48. (c)	49. (d)	50. (d)
51. (d)	52. (d)	53. (c)	54. (d)	55. (a)	56. (d)	57. (a)	58. (a)	59. (b)	60. (d)
61. (c)	62. (d)	63. (d)	64. (c)	65. (b)	66. (b)	67. (b)	68. (b)	69. (a)	70. (a)

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	71. (d)	72. (d)	73. (c)	74. (c)	75. (c)	76. (a)	77. (b)	78. (b)	79. (d)	80. (b)	
	81. (d)	82. (d)	83. (c)		85. (b)	86. (b)	87. (c)	88. (d)	89. (c)	90. (b)	
	91. (d)	92. (a)	93. (d)	94. (d)	95. (d)	96. (d)	97. (c)	98. (b)	99. (c)	100. (c)	
	101. (d)	102. (d)	103. (c)	104. (a)	105. (a)	106. (c)		· /	()		
			()			· /					
According and I Brown Overeit and											
Assertion and Reason Questions											
	107. (b)	108. (a)	109. (b)	110. (a)	111. (a)	112. (a)	113. (d)	114. (a)	115. (b)	116. (a)	
	117. (b)	118. (a)	119. (a)	120. (a)	121. (b)	122. (a)	123. (a)	124. (a)	125. (a)		
Previous Year Questions											
						2					
	1. (d)	2. (b)	3. (a)	4. (c)	5. (c)	6. (c)	7. (b)	8. (a)	9. (d)	10. (b)	
	11. (a)	12. (a)	13. (a)	14. (b)	15. (c)	16. (a)	17. (a)	18. (d)	19. (b)	20. (a)	
	21. (d)	22. (d)	23. (d)	24. (c)	25. (c)	26. (b)	27. (d)	28. (b)	29. (c)	30. (a)	
NCERT Exemplar Questions											
, ~											
	1. (c)	2. (a)	3. (d)	4. (b)	5. (c)	6. (d)	7. (a)	8. (c)	9. (c)	10. (a)	
	11. (d)	12. (d)	13. (b)	14. (a)	15. (a)	16. (a)	17. (d)	18. (a)	19. (d)	20. (a)	
	21. (c)	22. (b)									