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Dat		CHEMICEDY
Tim Mar	ne : rks :	CHEMISTRY
	ENVIRONMENTAL CHEMIS	TRY
	Single Correct Answer Type	
1.	Aerosols present in atmospheric air may be:	
	a) Positively charged	
	b) Negatively charged	
	c) Neutral	
	d) Combination of all (a), (b) and (c)	
2.	The process which does not evolve CO_2 in air is:	D. P
2	a) Burning b) Breathing c) Organic deca	
3.	High concentration hydrocarbon pollutants in atmospheric air cause a) Cancer	S:
	b) Silicosis	
	c) Respiratory diseases (e.g. Asthma)	
	d) Reduced crop yield	
4.	Ozone layer of stratosphere requires protection from indiscriminate	use of
	a) Pesticides b) Atomic explo	
	c) Aerosols and high flying jets d) Balloons	
5.	Which of the following is the hottest region of the atmosphere?	
	a) Mesosphere b) Stratosphere c) Thermosphe	
6.	Lead exhausted in the atmosphere by automobiles using leaded petr	ol (i.e., tetraethyl lead for improving
	octane number) is a lethal air pollutant, which causes:	
	a) Paralysis of muscles and loss of appetite	
	b) Nervous depressionc) Gastritis and diarrhea	
	d) All of the above	
7.	Green house effect is accelerated by:	
	a) Deforestation	
	b) Rapid industrialization	
	c) Increased transportation activity	
	d) All of the above	
8.	Mercury is emitted into air by:	
	a) Burning coal b) Burning garbage c) Coal fire	d) Steam engine
9.	Chlorofluorocarbon releases which of the following chemical harmfu	
	a) Fluorine b) Chlorine c) Nitrogen dic	oxide d) Sulphur dioxide
10.	Green house effect is caused by	
	a) NO ₂ b) CO c) NO	d) CO ₂
11.		nd liquids. Which of the given is not a
	'particulate'?	
	a) Dust and mistsb) Smoke and fumes	
	c) Photochemical smog and soot	
	d) None of the above	
12.	Bhopal gas tragedy of 1984 was caused by	

	a) Carbon monoxide	b) Phosgene	c) Methyl cyanate	d) Methyl isocyanate
13.	-	nitrogen dioxide in atmosp		D 0
4.4	a) Cancer	b) Bronchitis	c) Asphyxiation	d) Corrosion
14.	London smog is found in:			
	a) Summer during day ti			
	b) Summer during morni	-		
	c) Winter during mornin	_		
4 -	d) Winter during day tim			
15.	O) NI'	D C 1 1 1 1 1
1.0	a) Nitrogen oxide	b) Nitric oxide	c) Nitrous oxide	d) Sulphur dioxide
16.	Phosphate pollution is ca		la). A ani andtumal fantilia ana	
	a) Weathering of phosph		b) Agricultural fertilizers	
17	c) Phosphate rocks and s		d) Sewage and agricultur	
17.	-	= =	depletion of ozone layer?	
	a) CO ₂	b) CH ₄	c) CH ₃ OH	d) CF ₂ Cl ₂
18.			s transport of oxygen in bo	dy due to
	a) Combining with oxyge			
	b) Destruction of haemog			
		etween oxygen and haemog	globin	
4.0	d) Forming stable compo			
19.	Organomercury compoun) (I 1 1 1 1 1 1 1 1 1	D. D
20	a) Herbicides	b) Fungicides	c) Soil conditioners	d) Fumigants
20.		aving size less than 10^{-6} n	_	D.C. I
24	a) Gril	b) Aggregates	c) Aerosols	d) Smoke
21.			otochemical smog is not co	
	-		emical reaction involving so	olar energy
		loes not cause irritation in		
		s not play any role in photo		
22	· -	s an oxidising agent in char	adversely from harmful su	hetaneae ara callad
22.	a) Target	b) Receptor	c) Atmosphere	d) Both (a) and (b)
22	, ,	ollutants is not emitted dur	= = = = = = = = = = = = = = = = = = = =	u) botii (a) aliu (b)
23.	a) SO ₂	b) H ₂ S	c) CO	d) Hydrocarbons
24	Radioactive pollution is o	, -	c) co	uj fiyarocarbons
27.	a) Solid pollutants	b) Liquid pollutants	c) Gaseous pollutants	d) None of these
25	Harmful chemical presen		c) dascous pondunts	d) None of these
25.	a) Nicotine	b) Atropine	c) Tannic acid	d) Morphine
26.		/are the main agents of soi		a) Morphine
	a) Wind and water	b) Rocks	c) Sand	d) None of these
27.	-		oj barra	a) None of these
	a) It is less effective than			
	b) It becomes ineffective			
	c) It is a nondegradable s			
	d) It is very costly			
28.		present in maximum amou	ınt in acid rain?	
	a) HNO ₃	b) H ₂ SO ₄	c) HCl	d) H_2CO_3
29.			•	, .
	a) Organic waste into dri	-	b) Oil spill in water	
	c) Industrial waste merc	_	d) Arsenic into the atmos	sphere
		nful to human being as it		

				Gpius Education
	a) Is carcinogenic			
	b) Is antagonistic to CO ₂			
		haemoglobin as compared	l to oxygen	
	d) Is destructive to 0 ₃			
31.	Lack of oxygen at high alt	_	2.4.4	12. 4(6)
0.0	a) Bends	b) Anoxia	c) Asthma	d) Artificial respire
32.	Atmospheric pollutant is) 0	DAI
22	a) CO ₂	b) CO	c) 0 ₂	d) N ₂
33.	Photochemical smog is re		a) C = 11	D.M
24	a) Air	b) Water	c) Soil	d) Nostoc
34.	Which of the following st a) London smog is oxidis			
	b) London smog contains			
	c) London smog is forme			
	d) London smog causes b			
35			not responsible for the d	enletion of ozone layer?
55.	a) CH ₄	b) CFCl ₃	c) NO	d) Cl ₂
36.	DDT is	b) CrGi ₃	C) NO	u) Ci ₂
30.	a) Biodegradable polluta	nt	b) Non biodegradable po	Mutant
	c) Not a pollutant	IIC	d) An antibiotic	mutant
37	=	not a major constituent of		
57.	a) Oxides of sulphur	b) Oxides of nitrogen	_	d) Hydrogen sulphide
38.	Depletion of ozone layer		ej darbon monoxide	aj rij ar ogen sarpinae
	a) Oxides of nitrogen	b) Oxides of carbon	c) Oxides of sulphur	d) None of these
39.		ution in large cities include	-	.,
	a) Less use of insecticide	-		
	•	anic wastes, sewage and ir	ndustrial effluents	
	c) Shifting of factories ou	F 100 Total 1 1 2	CATION	
	d) All of the above	OLTO2 FD 6	PLITOIA	
40.	DDT and BHC may act as:			
	a) Allergens	b) Carcinogens	c) Asthematic agents	d) None of these
41.	Ozone hole is maximum o	over		
	a) Europe	b) Antarctica	c) India	d) Africa
42.	CFCl ₂ is responsible for	the decomposition of o	zone to oxygen. Which of	f the following reacts with
	ozone to form oxygen?			
	a) Cl ₂	b) Cl ⁻	c) F ⁻	d) Cl*
43.	Atmospheric content of C	${\rm CO_2}$ is		
	a) 0.0034%	b) 0.034%	c) 0.34%	d) 3.4%
44.	What is DDT among the f	ollowing?		
	a) A fertilizer			
	b) Biodegradable polluta			
	c) Non-biodegradable po	llutant		
	d) Greenhouse gas			
45.		a living component of atm	=	
	a) Lithosphere	b) Biosphere	c) Hydrosphere	d) Troposphere
46.			conditioners, refrigerators	
, -	a) Highly reactive	b) Flammable	c) Non reactive	d) All of these are true
4/	_	-	collected rain water will ha	ve a pH value
	a) Uninfluenced by occur			
	b) Which depends of the	amount of dust in air		

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		at when the thunderstorm		
48.	For a healthy aquatic life,	the amount of dissolved of	xygen in a water body must	t be equal to
	a) 5 ppm	b) 4 ppm	c) 3 ppm	d) 2 ppm
49.	Lead is			
	a) Air pollutant		b) Water and soil polluta	nt
	c) Radioactive pollutant		d) Noise pollutant	
50.	Negative soil pollution is			
	a) Reduction in soil prod	uctivity due to erosion and	over use	
	b) Reduction in soil prod	uctivity due to addition of p	pesticides and industrial wa	astes
	c) Converting fertile land	into barren land by dump	ing ash, sludge and garbage	•
	d) None of the above			
51.	The region which is great	ly affected by air pollution	is	
	a) Troposphere	b) Stratosphere	c) Mesosphere	d) Thermosphere
52.	Most hazardous metal po	llutant of automobile exha	ust is	
	a) Mercury	b) Lead	c) Cadmium	d) Copper
53.	Which of the following is			
	a) Sodium chlorate	b) Sodium arsenite	c) Polyphosphate	d) Triazines
54.	Which of the following is	a sink for CO?		
	a) Haemoglobin		b) Microorganisms prese	nt in the soil
	c) Oceans		d) Plants	
55.	Which of the following st			
	•	The state of the s	strial and domestic sewage	-
	-		ineral nutrients and radioa	ctive materials
		auses heavy damage to fish	ery	
	d) Oil slick in a sea water	increases DO value		
56.	Saline soil contains:	- mil		
	a) High concentration of	salt PLUS EDU(CATION	
	b) Lot of moisture	OT LOS LD G	27112011	
	c) Hard rocks			
	d) None of the above		W 0	
57.	_	not a natural source of air	pollution?	
	a) Volcanic eruptions an			
	b) Biological decay of veg			
	c) Photochemical oxidati	on of organic matter		
го	d) None of the above	a viable menticulate?		
58.	Which of the following is	b) Smoke	c) Mist	d) Eumoa
50	a) AlgaeTaj Mahal is threatened b		c) Mist	d) Fumes
39.	a) Chlorine	b) Sulphur dioxide	c) Hydrogen	d) Oxygen
60.	The instrument used for	· •	c) flydrogen	u) Oxygen
00.	a) Photometer	b) Voltameter	c) Conductivitymeter	d) Calorimeter
61.	Acid rains are produced h	-	c) conductivitymeter	d) Calorinieter
01.	a) Excess NO ₂ and SO ₂ fr	· •		
		IH_3 by industry and coal ga	nc	
	= =	on monoxide by incomplete		
		Ω_2 by combustion and anim		
62	Growing more trees help		iai i copii ation	
J.	a) Reduce oxygen in the			
	b) Increase carbon dioxid			
	, the car bon arome			

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c) Slightly lower than that of rain water without

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77.	Global warming may result in:		
- •	a) CO b) CO ₂	c) PAN	d) Aerosol
76.	A secondary pollutant is	9 J	
	d) Acid rain the is mostly because of oxides of ni		-
	c) Ozone layer does not permit infrared radiatio	-	the earth.
	b) Green house effect is responsible for global w	· -	
	a) Chlorofluorocarbons are responsible for ozon	ne laver depletion.	
75.	Identify the wrong statements in the following.	-,	,
, f.	a) Flyash b) Auto exhausts	c) Aeroplanes	d) Pesticides
74	Which of the following causes water pollution?	c ₁ co ₂	uj 502
/ 5.	a) Carbon b) CO	c) CO ₂	d) SO ₂
72	d) Destroys bacteria which are harmful to human life Which one is the most toxic?	e	
	c) Absorbs ultraviolet radiations which is harmful to		
	b) Removes poisonous gases of the atmosphere by re	_	
	a) Prevents the formation of smog over large cities		
72.	Ozone is an important constituent of stratosphere be	ecause it	
_	c) Biological oxygen demand	d) None of the above	
	a) Biological oxygen deficit	b) Biosphere oxygen dem	and
71.	BOD is		
	c) Equal to that of water	d) None of these	
	a) More than that of water	b) Less than that of water	•
70.	Drained sewage has BOD	'ATION	
	c) In the months of October and November	d) In summers	
	a) In November	b) In the months of Septe	mber and October
69.	Depletion of ozone layer over Antarctica takes place		1
	a) Stratosphere b) Troposphere	c) Exosphere	d) Thermosphere
68.		e atmosphere?	
	d) Ozone absorbs infrared radiations.		
	c) Depletion of ozone layer is because of its cher	nical reactions with chlo	rofluoro alkanes.
	b) Ozone absorbs the intense ultraviolet radiation	ons of the sun	
	a) Oxides of nitrogen in the atmosphere can cause	se the depletion of ozone	e layer.
67.	Identify the incorrect statement from the follow	ring.	
	a) Domestic waste b) DDT	c) Mercury salt	d) Aluminium foil
66.	Biodegradable pollutant is		-
	a) Detergents b) Industrial wastes	c) Pesticides	d) Oil spills
65.	Most abundant water pollutant is		
	d) Thickening of ozone layer		
	c) Reforestation		
	b) Blanketing effect of carbon dioxide in atmosphere	2	
0 11	a) Automobile exhaust		
64.	The progressive warming up of the earth surface is r	nainly due to:	
	d) The interaction of oxygen and water vapour.		
	c) The interaction of IR radiation with oxygen.		
	b) The interaction of UV radiation with oxygen.		
	a) The interaction of CFC with oxygen.		
63.	The ozone layer forms naturally by		
	d) Reduce CO_2 and increase O_2 in the environment		

c) Reduce carbon dioxide only in the environment

	a) Flood			
	b) Cyclone			
	c) Decrease in forest pro	ductivity		
	d) All of the above			
78.	Cyclone collector is used	for minimising		
	a) Radioactive pollution	b) Air pollution	c) Noise pollution	d) Water pollution
79.	Which of the following n	nethods is most effective	to remove particulates?	
	a) Bag filter method		b) Cyclone collector me	ethod
	c) Gravity settling cham	ber	d) Electrostatic precipi	tators
80.	Which of the following	is responsible for the	depletion of the ozone lay	er in the upper strata of
	the atmosphere?			
	a) Polyhalogens	b) Ferrocenes	c) Fullerenes	d) Freons
81.	Green chemistry means			
	a) Reduce the use and p		chemicals	
	b) Are related to deplet			
	c) Study the reactions in	· ·		
	d) Produce colour durin	g reactions		
82.	Result of ozone hole is			
	a) Green house effect		b) Global warming	
	c) Acid rain		d) UV rays reach the ea	rth
83.	Photochemical smog is f	ormed in		
	a) Summer during morn	ning time	b) Summer during day	time
	c) Winter during morning	ıg time	d) Winter during day ti	me
84.	Pick up the correct state	ment		
	a) CO plays a major role	in photochemical smog		
	b) London smog has an	oxidising character wher	eas Los Angeles smog is red	ucing in nature
	c) Classical smog is good	l for health but photoche	emical somg not	
			London smog forms in early	morning hours
85.	Pneumoconiosis is cause	-		
	a) Coal dust	b) Silica dust	c) Cotton fibre dust	d) Asbestos dust
86.	The water pollutants r	nainly responsible for	the eutrophication are	
	a) Cd, Pb and Hg prese	nt in industrial waste.		
	b) Heavy metals prese	nt in mining waste.		
	c) Detergents and fert	lizers containing phos	phate anion.	
	d) Polychlorinated bip	henyls.		
87.	Which of the following is	s not a green house gas?		
	a) CO ₂	b) Water vapour	c) CH ₄	d) O ₂
88.	What does BOD ₅ repres	ent?		
	a) Biological ozone depl	etion in five days		
	b) Dissolved oxygen left	after five days		
	c) Dissolved oxygen con	sumed in five days		
	d) Micro-organisms kille	d by ozone in sewage tr	eatment plants in five hours	
89.	Pick out the correct st	atement?		
	CO which is major	pollutant resulting fr	om the combustion of fu	iels in automobiles plays a
	a) major role in photo			
			while the photochemical s	mog is reducing in
	character	0	1	0
		g occurs in dav time w	hereas the classical smog	occurs in early morning
	,	J		J

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hours

	d) During formation of s	smog the level of ozone is	n the a	tmosphere goes do	own
90.	Gas released during Bhop	al tragedy was			
	a) Methyl isocyanate		b) Po	tassium isothiocyana	ate
	c) Sodium isothiocyanate		-	nyl isothiocyanate	
91.	Mesosphere and thermos	phere are collectively knov	vn as		
	a) Exosphere	b) Thermopause	-	nosphere	d) Interstellar region
92.	It is dangerous to leave the due to poisoning by emiss	le car engine running in a cosion of:	losed g	arage, because it ma	y cause serious pollution
	a) CO ₂	b) CO	c) Un	burnt petrol	d) SO ₂
93.	· · · · · · · · · · · · · · · · · · ·	nosphere where temperatu	-	=	is/are
	a) Thermosphere	b) stratosphere	c) Tr	oposphere	d) Ozonosphere
94.	The brown haze of phot	tochemical smog is large	ly attri	butable to	
	-		CH	I_3COONO_2	
	a) NO	b) NO ₂	c)		d) $CH_2 = CHCH = 0$
	.,		.,	0	,
95.	UV radiations bring about	†			
, , ,	a) Skin cancer	b) Mouth cancer	c) Lu	ng cancer	d) Liver cancer
96.	•	orth consisting of soil, rocks		_	,
	a) Hydrosphere	b) Lithosphere		mosphere	d) Biosphere
97.	Which of the following	<u> </u>	0) 110	osp.nere	a) Disspirere
,,,	a) N ₂	b) N ₂ O	c) NO)	d) CO
ΩΩ		not considered to be a poll	-	,	u) CO
90.		b) CO ₂	c) 0 ₃		d) C _x H _y
00	a) NO ₂	-	, ,	omiatury?	u) C _X II _y
99.		g is not an application of gr			one form shorts
		y CO ₂ as blowing agent in t and phosgene to produce r			elle foalii sheets
		and phosgene to produce in otins by 'sea-nine' as anti fo			inaa
		tion of the diethanol amine			
100		tmosphere due to trapping			
100	a) Air pollution	b) Air heating		otosynthesis	d) Greenhouse effect
101	Which one of the followin		C) I II	otosynthesis	a) diceimouse effect
101		ogen and carbon are the mo	nst wid	esnread air nollutan	t
		hould be between 5.5–9.5	JJC WIG	espread an pondean	·
	· ·	elow 6 ppm is good for the	growth	of fish	
		e a BOD value of less than !	_		
102	Most poisonous pollutant		o pp		
	a) Zinc	b) Phosphate	c) Ar	senic	d) Detergent
103		le for depletion of ozone la	-		,
	a) Methyl chloroform	b) Carbon tetrachloride	-	th (a) and (b)	d) None of these
104	Air pollution is not caused	=	,		,
	a) Pollen grains	b) Hydroelectric power	c) Inc	lustries	d) Automobiles
105		d high mutation rate are du			,
	a) Acid rain	b) Ozone depletion		pollution	d) CO ₂ pollution
106	Photochemical smog is ca	used by			
	a) CO	b) CO ₂	c) 0 ₃		d) NO ₂
107	The main source of atmos	pheric pollution is			
	a) Carbon monoxide	b) Hydrocarbons	c) Pa	rticulates	d) NO
108	A fertile soil is likely to ha	ve a pH of:			
	a) 3	b) 9	c) 6-7	7	d) 14

	atmosphere is being destroye	•	
a) Chlorofluorocarbo		b) SO ₂	
c) Photochemical oxid		d) Smog	
110. Lead in water can cau		S *** 1	N **
a) Eye disease	b) Arthritis	c) Kidney damage	d) Hair falling
111. Green chemistry invol			
_	nicals of our daily use from gr	=	
-	esses in which green plants a	re used	
	nich are of biological origin		
_	agents and solvents to produc		oducts
	g pollutants is main product o		
a) CO	b) CO ₂	c) NO	d) Hydrocarbons
113. Eutrophication causes			
a) Nutrients	b) Dissolved salts	c) Dissolved oxygen	d) All of these
114. Select the incorrect st			
•	d pure if it has BOD less than		
b) In COD determination	ion, the pollutants resistant to	o microbial oxidation are n	ot oxidised by oxidising
agent like K ₂ Cr ₂ O ₇			
c) The lower the conc	entration of DO, the more pol	luted is the water sample	
d) The tolerable limit	of lead in drinking water is 5	0 ppm	
115. Man dies in the atmos	phere of CO, because it:		
a) Dries up the blood			
b) Combines with O _{2 1}	present in the body	>	
c) Reduces the organi	c matter of tissues		
d) Combines with the	haemoglobin of blood, thereb	by making the later incapal	ble of absorbing O_2
116. Methane gas producir	ng field is		
a) Wheat field	b) Paddy field	c) Cotton field	d) Groundnut field
117. The aromatic compou	nds present as particulates a		
a) Benzene	OFLUS ED O	b) Toluene	
c) Nitrobenzene		d) Polycyclic aromatic h	ydrocarbons
118. Which of the following	g is secondary air pollutant?		
a) Photochemical smo	og b) NO ₂	c) Dust particles	d) SO ₂
119. Which among the give	en is not a natural source of ai	r pollution?	
a) Automobile exhaus	, ,	c) Forest fire	d) Volcanic eruptions
120. The greatest affinity for	or haemoglobin is shown by		
a) NO	b) CO	c) 0 ₂	d) CO ₂
121. Identify the wrong sta	tement in the following		
a) Chlorofluorocarboi	ns are responsible for ozone l	ayer depletion.	
b) Acid rains is mostly	because of oxides of nitroge	n and sulphur	
c) Green house effect	is responsible for global warı	ning	
d) Ozone layer does n	ot permit infrared radiation f	rom the sun to each the ea	rth
122. The principal gas evol	ved from sludge digestion tar	nk is:	
a) CO	b) CO ₂	c) CH ₄	d) N ₂
123. Pollution is			
a) Removal of top soil			
b) Release of toxic/un	desirable materials in enviro	nment	
c) Conservation of en			
d) All of the above			
124. PAN stands for			
a) CH ₂ O			

	b) $CH_2 = CH - CHO$			
	c) $CH_3CH_2O - N = O$			
	$CH_3 - C - OONO_2$			
	d)			
	0			
125	Which of the following gas	ses present in air protects l	ife on the earth from the ha	rmful effects of UV rays
	from the sun?	•		·
	a) Carbon dioxide	b) Nitrogen	c) Oxygen	d) Ozone
126	. Which of the following reg		, , , ,	,
	a) Stratosphere	b) Troposphere	c) Mesosphere	d) Thermosphere
127		, , ,	f S, N and C are referred to	
	a) Artificial rain	b) Acid rain	c) Hails	d) None of these
128	Which is not an example of		c) Hans	a) None of these
120	a) Oxides of halogens	b) Oxides of sulphur	c) Oxides of carbon	d) Oxides of nitrogen
129	,	not a part of green chemist	-	uj oxides of introgen
14)	a) Photochemistry	b) Sonochemistry	c) Nuclear chemistry	d) Biochemistry
120	,	•	articulate pollution is false	•
130.	_	-	=	'
	· · · · · ·	er removes larger particles		
	· •	ves fine particles in the dia	•	
	•	d to wash away all types of	-	1 ' 1 ' .1
		•	nade to acquire positive cha	irge which are then
		ve electrode and removed.		
131.	-		here and ionosphere is call	
	a) Stratopause	b) Mesopause	c) Tropopause	d) Ionopause
132.	=	not regarded as a pollutant		
	a) NO ₂	b) CO ₂	c) 0 ₃	d) Hydrocarbons
133	Which of the following is			
	a) Carbon monoxide	b) Nitrogen peroxide	c) Carbon dioxide	d) Sulphur dioxide
134			is least for causing atmosp	=
	a) Nitrogen oxides	b) Sulphur oxides	c) Hydrocarbon	d) Particulates
135	Sulphur dioxide present i	n the industrial chimney ex	haust causes:	
	a) Respiratory and lung d	isease		
	b) Reduction in plant's pr	oductivity owing to acid rai	in	
	c) Corrosion of building n	naterials		
	d) All of the above			
136	Which of the following pr	ocess in involved in the bio	chemical treatment of sewa	nge effluents?
	a) Oxidation	b) Reduction	c) Dehydration	d) Fermentation
137	The smog is essentially ca	used by the presence of		
	a) O_2 and O_3		b) O_2 and N_2	
	c) Oxides of sulphur and r	nitrogen	d) O ₃ and N ₂	
138		responsible for peeling of o		
	a) PAN	b) Coal burning	c) CFCs	d) CO ₂
139	Most efficient and suitable		for removal of flyash from f	, <u>-</u>
	plant is:	1 1	J	o i
	a) Gravity setting chambe	er		
	b) Cyclone separator			
	c) Electronic precipitator			
	d) Bag filter			
140	, ,	from iron and steel industry	v are:	
	a) CO , CO_2 and SO_2	b) NO, SO ₃ and H_2S	c) CO_2 , H_2S and NO_2	d) CO ₂ , NO ₂ and SO ₃
	, , , , , , , , , , , , , , , , , , , ,	, , u <u>-</u>	, <u>, , , , , , , , , , , , , , , , , , </u>	, 4, 43

141 Identify the correct of	lecreasing order of the fo	llowing with respect to	altitude from atmosphere.
I. Troposhere			
II. Mesopshere			
III. Thermosphere			
a) II, III, I	b) III, II, I	c) I, II, III	d) I, III, II
142. Which is not a green he		0) 1, 11, 111	~, 1, 111, 11
a) CO_2	b) CH ₄	c) N ₂ O	d) Chlorofluorocarbons
143. Which of the following		c) 1120	a) amoronaorocarbons
a) Mercury	b) Arsenic	c) Lead	d) Aluminium
144. Smog is:	b) Arseme	c) Lead	a) Adminium
a) Nothing but black si	moka		
b) A combination of sr			
	ulting from vapour condens	sation	
d) A solid particle, e.g.,	-	sation	
145. Ozone hole refers to	iiy a sii		
a) Hole in ozone layers			
•	ess of ozone layer in stratos	enhara	
	ess of ozone in troposphere		
d) Increase concentrat		•	
146. Which of the following		nt?	
a) Plastic	b) Sewage	c) Asbestos	d) Mercury
147. Which of the following	The state of the s	•	d) Mercury
a) Automobile exhaust		r pontition.	
b) Forest fire	7.1		
c) Bacterial action in s	oil and swamn areas	P	
d) All of the above	on and swamp areas		
148. Which of the following	ng is secondary nollutant	?	
a) CO_2	b) N_2O	c) PAN	d) SO ₂
· -		C) I AIN	u) 30 ₂
149. The basic componen) NO	3) All (c)
a) PAN	b) PBN	c) NO ₂	d) All of these
150. Highly toxic gas which			
a) CO ₂	, ,	c) CO	d) All of these
151. The main source by wh	nich Taj Mahal may be desti		
a) Flood in Yamuna	•	b) Flue gases from Ma	thura refinery
c) Excessive use of nat	-	d) All of the above	6 111 0
152. Which of the following	-	-	
a) CO ₂	b) CO	c) Water vapours	d) C_2H_6
153. Main source of lead po) m 1	13.7
a) Sewage	b) Leaded gasoline	c) Tobacco	d) Insecticides
154. Main pollutants release	-		N 60 NO 100
a) CO, SO ₂ and H ₂ S	b) CO ₂ , NO and SO ₃		d) SO ₃ , NO ₂ and CO ₂
		remain suspended in air i	ndefinitely and transported by
wind currents are calle			
a) Fumes	b) Mist	c) Aerosols	d) Soot
156. The depletion of ozone		vould lead to:	
•	taracts and skin cancer		
b) Reduction of plankt			
c) Depletion of plants	and crops		
d) All of the above			

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157. The following do/doe	s not cause water pollution:		
a) Heavy metals such	as Cd, Pb, Hg		
b) Detergents			
c) Polychlorobipheny	ls		
d) Freons			
158. Aerobic oxidation is ca	aused by:		
a) Aerobic bacterias ii	n presence of excess of oxygen	l	
b) Anaerobic bacteria	s in presence of insufficient ox	ygen	
c) Aerobic bacterias ii	n the absence of oxygen		
d) Both anaerobic and	l aerobic bacterias in any cond	lition	
159. UV radiation from sun	causes a reaction that produc	ces	
a) Carbon monoxide	b) Sulphur dioxide	c) Fluorides	d) Ozone
160. Ozone depletion in the	e stratosphere is mainly cause	d by:	
a) SO ₂	b) NO ₂	c) NO	d) chlorofluorocarbons
161. The oxygen present to	oday in atmosphere:		
a) Is a plant product			
b) Came from ozone			
c) Was present in the	beginning		
d) Produced by carbo	n dioxide		
162. Ozone in stratosphere	is depleted by		
a) CF ₂ Cl ₂	b) C ₇ F ₁₆	c) C ₆ H ₆ Cl ₆	d) C ₆ F ₆
163. As it passes into food	chain, the concentration of DD	T	
a) Remains same	b) Decreases	c) Increases	d) Unpredictable
164. Which of the following	g statements about polar strat	ospheric clouds (PSCs	s) is not correct?
a) Type I clouds are fo	ormed at about $-77^{\circ}\mathrm{C}$ and con	tain solid HNO ₃ • 3H ₂	0
b) Type II clouds are f	formed at about $-85^{\circ}\mathrm{C}$ and co	ntain some ice	
c) A tight whirlpool of	f wind called polar vortex is fo	rmed which surround	ls Antarctica
d) PSCs do not react w	vith chlorine nitrate and HCl	'ATION	
165. In Antarctica ozone	depletion is due to the form	ation of following c	ompound
a) acrolein	-	b) Peroxyacetyl ni	trate
c) SO_2 and SO_3		d) Chlorine nitrate	
	he atmosphere, ozone is form	-	
a) Action of UV rays o	-	od by eno.	
b) Combination of oxy	, ,		
•	ischarge of oxygen molecules		
d) Effect of high press			
167. Chief source of water			
a) Mining	end con pondicion is	b) Thermal power p	plant
c) Agro-industry		d) All of these	
	leakage of methyl isocyanate	,	arbide factory in Bhopal caused a
major tragedy on:	rearrage or meanly record and	Para manu and aman an	ze ideed j in z.i.epui eduzed d
a) Dec. 2, 1984	b) Dec. 15, 1983	c) Dec. 10, 1982	d) Dec. 4, 1988
169. The term acid rain wa	_	0, 2 00. 20, 2002	,
a) Robert Boyle	b) Robert Augus	c) Alfred Nobel	d) Havoisier
170. The lowest layer of ea	_	oj mirea meser	aj navololei
a) Troposphere	b) Mesosphere	c) Stratosphere	d) Ionsphere
	amount of SO_2 as an air pollut		,
a) Nitric acid	b) Sulphuric acid	c) Chloroalkali	d) Iron and steel
172. 'Los Angeles' smog is	-,p doid	.,	,
a) Sulphurous smog	b) Photochemical smog	c) Industrial smog	d) All of these
			-
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173. Solar ultraviolet radiation is absorbed by:		
a) Exosphere b) Ionosphere	c) Ozonosphere	d) Stratosphere
174. The concentration of salts in soil is increased by	•	
a) Canal water	b) Excessive use of pesti	cides
c) Excessive use of fungicides	d) All of the above	
175. In which part of the atmosphere, ozone layer is	present?	
a) Stratosphere b) Troposphere	c) Mesosphere	d) Thermosphere
176. Persons working in cement plants and limestone q	uarries are more prone to d	isease like:
a) Cancer b) Asthma	c) Silicosis	d) Pneumoconiosis
177. Many people died in London in 1952 as a result of	air pollution producing	
a) Mist b) Fog	c) Smog	d) Sleet
178. The total amount of oxygen (in ppm), consumed by	a pollutant in a water sam	ple is termed as
a) Dissolved oxygen (DO)	b) Biochemical oxygen d	emand (BOD)
c) Chemical oxygen demand (COD)	d) None of the above	
179. Ozone layer is present in		
a) Troposphere b) Stratosphere	c) Mesosphere	d) Exosphere
180. Addition of phosphate fertilizers into water leads t	0	
a) Increased growth of decomposers	b) Reduced algal growth	
c) Increased algal growth	d) Eutrophication	
181. The smog is essentially caused by the presence	of	
a) O_2 and O_3	b) O_2 and N_2	
c) Oxides of sulphur and nitrogen	d) O_3 and N_2	
182. Temperature of troposphere decreases with altitude	le. This is because of	
a) High pressure of air b) Gases present in air	c) Lower density of air	d) All of these
183. Which of the following is a primary pollutant?		
a) CO b) PAN	c) Aldehydes	d) H_2SO_4
184. The gas that is not considered as a 'green hous	e gas' is	
a) CO ₂ b) CH ₄	c) O ₂	d) O ₃
a) ${\rm CO_2}$ b) ${\rm CH_4}$ 185. Presence of high concentration of ozone and smog	c) ${\rm O}_2$ in atmospheric air causes:	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance 	c) ${\rm O}_2$ in atmospheric air causes:	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products 	c) ${\rm O}_2$ in atmospheric air causes:	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles 	c) O ₂ in atmospheric air causes: e of paper	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 	c) O ₂ in atmospheric air causes: e of paper	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? 	c) O ₂ in atmospheric air causes: e of paper	d) O ₃
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx 	c) O ₂ in atmospheric air causes: e of paper	d) O ₃
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 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx b) SO₂ is more harmful air pollutant than SO₃ c) NO₂ is more toxic to living tissues than NO d) NO_x do not play any role in photochemical smog 	c) 0_2 in atmospheric air causes: e of paper ower line.	d) O ₃
a) CO ₂ b) CH ₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO ₂ does not affect larynx b) SO ₂ is more harmful air pollutant than SO ₃ c) NO ₂ is more toxic to living tissues than NO d) NO _x do not play any role in photochemical smog	c) 0_2 in atmospheric air causes: e of paper ower line.	
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 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx b) SO₂ is more harmful air pollutant than SO₃ c) NO₂ is more toxic to living tissues than NO d) NO_x do not play any role in photochemical smog 187. Photochemical smog always contains a) O₃ b) CO 188. Which of the following is not a soil pollutant? 	c) O_2 in atmospheric air causes: e of paper ower line. c) CO_2	
a) CO ₂ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO ₂ does not affect larynx b) SO ₂ is more harmful air pollutant than SO ₃ c) NO ₂ is more toxic to living tissues than NO d) NO _x do not play any role in photochemical smog 187. Photochemical smog always contains a) O ₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides	d) CH ₄
a) CO ₂ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO ₂ does not affect larynx b) SO ₂ is more harmful air pollutant than SO ₃ c) NO ₂ is more toxic to living tissues than NO d) NO _x do not play any role in photochemical smog 187. Photochemical smog always contains a) O ₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags c) Detergents	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides d) Nitrate and phosphate	d) CH ₄
a) CO ₂ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO ₂ does not affect larynx b) SO ₂ is more harmful air pollutant than SO ₃ c) NO ₂ is more toxic to living tissues than NO d) NO _x do not play any role in photochemical smog 187. Photochemical smog always contains a) O ₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags c) Detergents 189. Among the following statements which one is income	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides d) Nitrate and phosphaterect?	d) CH ₄ e fertilizers
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx b) SO₂ is more harmful air pollutant than SO₃ c) NO₂ is more toxic to living tissues than NO d) NO_x do not play any role in photochemical smog 187. Photochemical smog always contains a) O₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags c) Detergents 189. Among the following statements which one is incoma) Suspended particulate matter (SPM) is an important 	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides d) Nitrate and phosphaterect? etant pollutant released by o	d) CH ₄ e fertilizers
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx b) SO₂ is more harmful air pollutant than SO₃ c) NO₂ is more toxic to living tissues than NO d) NO_x do not play any role in photochemical smog 187. Photochemical smog always contains a) O₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags c) Detergents 189. Among the following statements which one is incoma) Suspended particulate matter (SPM) is an importance of the least of the lea	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides d) Nitrate and phosphaterect? etant pollutant released by o	d) CH ₄ e fertilizers
 a) CO₂ b) CH₄ 185. Presence of high concentration of ozone and smog a) Embrittlement and decrease of folding resistance b) Cracking of rubber products c) Fading of dye on textiles d) Damage of electrical insulator on high tension p 186. Which of the following statements is not false? a) SO₂ does not affect larynx b) SO₂ is more harmful air pollutant than SO₃ c) NO₂ is more toxic to living tissues than NO d) NO_x do not play any role in photochemical smog 187. Photochemical smog always contains a) O₃ b) CO 188. Which of the following is not a soil pollutant? a) Polythene bags c) Detergents 189. Among the following statements which one is incoma) Suspended particulate matter (SPM) is an important 	c) O ₂ in atmospheric air causes: e of paper ower line. c) CO ₂ b) Pesticides d) Nitrate and phosphaterect? ctant pollutant released by oung lining	d) CH ₄ e fertilizers diesel vehicles.

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a) Microorganism	b) Light	c) Fishes	d) Aquatic plants
191. T	he number of ozone mol	ecules converted into oxyg	en by one molecule of chlor	ofluorocarbon compound
is	is			
a) One hundred (approxi	mately)	b) Ten thousand (approxi	mately)
c]) Hundred thousand (ap	proximately)	d) Only one	
192. U	2. Use of chlorofluoro carbons is not encouraged because			
a	a) They are harmful to the eyes of people that use it.			
b	b) They damage the refrigerators and air conditioners.			
		one in the atmosphere.		
) They destroy the oxy			
		n the ozone depletion by	chloroflurocarbons is	
) Cl ₂	b) OCl	c) OF ₂	d) O ₂ F ₂
	-	$\mathrm{H}_2\mathrm{SO}_4$ fog lies in the range	· -	u) 0 ₂ 1 2
) 5–100 nm	b) 100–500 nm	c) 500—1000 nm	d) 1000—10,000 nm
		g can cause depletion of oz	•	u) 1000—10,000 iiii
) H ₂ S	b) NO	c) Smoke	d) Aerosols
	=	rogen are important polluta		u) /1c103013
) Water	b) Air	c) Soil	d) All of these
		,	volume of water over a peri	•
) Fermentation	aygen amisacion by a unit v	b) Biogas generation	od of time is to measure
) Biosynthetic pathway		d) Biological oxygen dema	and
	he most abundant pollut	ant is	a) biological onygen acme	
) Ethane	b) Methane	c) Propane	d) Butane
	-	pes of pollution is caused by		a) Butaire
) Thermal pollution	b) Noise pollution	c) Radioactive pollution	d) All of these
	Which of the following sta	· ·	o) immonotore positions	,
	a) Ammonia acts as sink for NO_x b) Limestone acts as sink for SO_x c) The average residence time of NO is one month d) SO_x can be removed from flue gases by passing through a solution of citrate ions			
b				
201. The photochemical smog can be suppressed by				
) Nitrogen oxides	. 8	b) Hydrocarbons	
) Radical trapes		d) Formaldehyde	
	. Proper management of disposal of household and industrial wastes can be done by			
	a) Recycling the waste material to give useful products again b) Burning and incineration of combustible waste			
) Sewage treatment	on or combustible waste		
) All of the above			
	Iltraviolet light causes			
	a) Formation of pyrimidines			
) Sticky metaphases			
) Photodynamic action			
	d) Destruction of hydrogen bonds between complementary DNA strands			
	204. Classical smog occurs in places of			
) Excess SO ₂	b) Low temperature	c) High temperature	d) Excess NH ₃
	praying of DDT produces	=		, J
) Air and water	b) Air	c) Air, water and soil	d) Air and soil
			nt by reacting with oxides o	
	unlight?	-	-	- •

a) HCl b) SO_2 c) O_3 d) HCN gas

207. White lung cancer is caused by

a) Asbestos b) Silica c) Paper d) Textiles

208. Water is often treated with chlorine to

a) Increases oxygen content b) Kill germs

c) Remove suspended particles d) Remove hardness

209. When rain is accompanied by a thunderstorm, the collected rain water will have a pH value

a) Slightly lower than that of rain water without thunderstorm.

b) Slightly higher than that when the thunderstorm is not there.

c) Uninfluenced by occurrence of thunderstorm.

d) Which depends on the amount of dust in air.

210. Which of the following acts as a sink for chlorine free radicals?

New Maria and the following details as a sink for emotine free radicals.

a) Nitrogen dioxide b) Methane c) Carbon dioxide d) Both (a) and (b)

211. A 'body' which allows the short wavelength incoming solar radiation to enter in but does not allow long

wave outgoing infra-red radiation to escape out is called:

a) Global warming b) Green house c) Atmospheric effect d) Ionosphere



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