Module-4

Global Environmental Concerns (Concept, policies and case-studies)

1. Which of the following	ng doesn't control aquifer behaviour?
a) Wind conditions	b) Nature of the rock
c) Structural disposition	d) Climate conditions like precipitation
2. An aquifer can hold v	vaterand the state of water is
a) Permanently – State of	flow b) Temporarily – State of flow
c) Permanent – State of sta	agnancy d) Temporary – State of stagnancy
• •	that can be withdrawn annually and also the rate at which this without adversely affecting the inventory of the aquifer is called
a) Annual yield	b) Percent yield
c) Operational yield	d) Monthly yield
4. When an aquifer is us layer, the aquifer acts as _	sed to artificially recharge by making it pass through an intervening
a) A cooling agent	b) An aerating agent
c) An odour agent	d) A filter plant
5. When would the dam	become irrelevant?
a) When the rocks are stro	ng b) When the rocks are impermeable
c) When the rocks are po	d) When the rocks are weathered to a certain extent
6. Which quality of rocletc.?	s should be known properly for the foundations of dams, reservoirs,
a) Colour knowledge	b) Geological
c) Hydrogeological	d) History of the formation of rocks
7. Groundwater is a source	of trouble at which place?
a) Plains b) S	Slopes
c) Rivers d) I	Lakes
7. An associated protect	tion of rising water-table is the development of
a) Loss of nutrients	b) Loss of good quality of water
c) Salinity of water	d) Increase in turbidity
· · · · · · · · · · · · · · · · · · ·	ops in water-logged areas get
a) Decomposed	b) Enriched with nutrients
c) Photosynthesised	d) Growth inhibited

9. Which one of the following is an important heata) Nitrogenb) Carbon monoxidec) Carbon dioxided) Hydrogen	trapping gas?
10. How many cubic kilometers of land ice decreas a) 100 b) 400 c) 500 d) 1000	e in Antarctica since 2002?
11. Which one of the following is the reason for a s a) Depression of sea water b) Expansion of the following is the reason for a s b) Expansion of the following is the reason for a s c) Due to heavy rainfall d) Due to low reason for a s	of sea water
12. What is the full form of IPCC?a) Intergovernmental Panel on Climate Changec) Intergovernmental Protocols on Climate Changed) International Panel on Climate Conservation	b) International Panel on Climate Change
13. What is the estimation range of the global mean a) 0-10 cm b) 4-45 cm c) 9-88 cm d) 14-123 cm	sea level rise by the year 2100?
14. Which one of the following is a result of climate a) Adequate rainfall b) Pure air c) Deficiency of freshwater d) Less soil pole	
	ange? to modern technologies to reduced in pollution
	able regions? nortage of food and water nortage of chemical manures
•	ector species due to climate change? eased the spread of diseases or species do not spread disease

18. Which one of the following can achieve Global Climate Change?

a) World War-3	b) Making unwanted policies
c) Drinking less water	er than required d) The training of researchers and health professionals
19. In which year th	ne Pacific Ocean led to the most serious death in coral ever known?
a) 1993	b) 1995
c) 1997	d) 2000
20. What would hav	we been the average temperature of Earth without greenhouse gases?
a) 0oC	b) -7oC
c) -9oC	d) -19oC
,	
21. Ever since the in increased?	ndustrial revolution, by how much has the average temperature of the Earth
a) 0.24oC	b) 0.6oC
c) 1.2oC	d) 1.8oC
	ne sun's radiation energy is absorbed by the greenhouse gases to warm the
planet?	
a) 75PW	b) 1750GW
c) 1500MW	d) 150TW
23. What is the emis	ssivity of the Earth's surface?
a) 0.457	b) 0.578
c) 0.135	d) 1.42
	louds is found in the highest altitude of the Earth's atmosphere?
a) Noctilucent	b) Cirrostratus
c) Stratus	d) Cirrus
25. What is the sign	ificance of the ionosphere?
a) Aviation movemen	b) High frequency radio transmission
c) Regulates weather	
26. What does the to	erm "overcast" define?
a) Phenomenon of in	direct radiation exposure due to scattering
b) Weather when clo	ud cover is equal to 8 oktas
c) Phenomenon of in	ndirect radiation exposure due to scattering & Weather when cloud
cover isequal to 8 ol	ktas
d) None of the mention	oned

27. What does ITCZ stand	for corresponding	ng to global wind patterns?
a) Inner Tropospheric Conv	ergence Zone	b) Inter Tropical Convergence Zone
c) Inner Tropical Continenta	ıl Zone	d) Inter Tropical Continental Zone
28. Which one of the follow	wing cause acid	rain?
a) Water pollution	b) Soil polluti	on
c) Air pollution	d) Noise Pollu	ntion
29 What are two acids formed	ed when gases re	eact
with the tiny droplets of wat	er in clouds?	
a) Sulphuric acids and nitr	ric acid	b) Hydrochloric acid and nitric acid
c) Sulfurous acid and acetyl		d) Sulphuric acid and hydrochloric acid
•	•	
29. What is the nature of ac	cid rain?	
a) Withstanding	b) Protecting	
c) Corrosive	d) Balancing	
 a) By nourishing the nutrien b) By increasing the nutrien c) By removing nutrients f d) By balancing the nutrient 	ts from the soil	
31. What is the result of ac	id rain when it f	alls into water bodies?
a) The water becomes acid	ic	b) The water becomes pure
c) The water increase its nut	rients value	d) The water increase its level
32. Which one of the way		
a) Increase the emission of s		2
b) Decrease the emission of		_
c) Increase in the emission of	•	
d) Decrease in the emission	of hydrochlorid	e and phosphate
22 Th. Th. 11 1 1 1 1 1		
33. The Taj Mahal in India	<u> </u>	
a) Fog	b) Acid rain	
c) Water pollution	d) Spoil Pollu	TION
34. Which of the following a) By adding sulphur to the c) By adding oxygen to the	soil b) By	to reduce acid rain in soil? adding nitrogen to the soil lding limestone to the soil

by cars?				
a) By burning more fuels		b) By using old engine vehicles		
c) By using ignition		d) By using catalytic converters		
36. Which is th	ne most acidic ir	ı pH scale?		
a) 0	b) 7			
c) 10	d) 14			
37. Who was th	he first to use th	e phrase "Acid Rain"?		
a) Robert Angu	ıs Smith	b) Ernest Flower		
c) Elmer Joseph	Clark	d) Christ Ralph		
38. When was	the "Clean Air	Act" in United States came into force?		
a) 1950	b) 1960			
c) 1970	d) 1980			
39 Relow whi	ch of the follow	ring pH is rain regarded as 'acid rain'?		
a) 7 b) 7.3	en of the follow	ing pri is fulli regulaca as acid fulli .		
· · · · · · · · · · · · · · · · · · ·	l) 6			
	_	ally not preferred for sampling rain water. Why?		
		b) Glass containers are not easy to maintain		
		pH of the rain water		
d) All of the me	ntioned			
41. Which of the	he following gas	ses are main contributors to acid rain?		
a) Carbon dioxid				
b) Sulphur dioxi				
c) Sulphur dioxi	de and nitrogen	dioxide		
d) Sulphur diox				
42. What does	the term "limin	g" mean?		
		and calcium rich substances to soil		
	_	e(lime) zones in soil		

c) Excessive growth of lemon trees in acid rain prone regions

d) None of the mentioned

35. How can we control acid rain which is causing due to the exhaust fumes on the atmosphere

43. Which place in India rec	eeives the highest annual rainfall?
a) Mawsynram	b) Cherrapunji
c) Siju	d) Phyllut
44. Who discovered the phe	nomenon of acid rain?
a) George Brown	b) James T. Stewart
c) Robert Angus Smith	d) Charles David
c) Robert Higus Silitin	d) Charles Buvid
45. Which of the following	is/are natural contributor(s) to sulphur dioxide in the atmosphere?
a) Sea sprays	b) Volcanic eruption
c) Decaying vegetation	d) All of the
46. What is the pH required	for the survival of aquatic animals and plants?
a) 7 b) 7	.5
c) 6.5 d) 4.8	
<u> </u>	gases is responsible for the yellowing of the Taj Mahal?
a) Organic carbon	b) Black carbon
c) Brown carbon	d) All of the mentioned
40 3371 4 41	
=	centration of ozone in the ozone layer of the atmosphere?
a) Nearly 100%	b) Greater than 90%
c) Between 10-50%	d) Less than 10ppm
49. Who discovered the ozo	ne laver?
a) Henri Buisson & Charles	
b) Carl Sagan & Charles Fab	
c) G.M.B Dobson	
d) Carl Sagan &G.M.B Dobs	on
50 Which of the following	devices can be used to measure ozone in the stratosphere from the
ground?	devices can be used to measure ozone in the stratosphere from the
a) Spectrometer	
b) Photometer	
c) Spectrophotometer	
d) Spectro-ozonometer	
a, specia ozonometer	

	51. The ozone layer	absorbs what range of wavelengths of the sun's radiation?	
	a) 0.80 nm – 1.50 nm	b) 200 nm – 315 nm	
	c) 450 nm – 570 nm	d) $600 \text{ nm} - 750 \text{ nm}$	
		the formation of ozone from photochemical reactions?	
	a) G.M.B Dobson	b) Sydney Chapman	
	c) Carl Sagan	d) Henri Buisson	
	53. Between what al	titudes, is the ozone layer found in highest concentrations?	
	a) 10-20km	b) 20-40km	
	c) 40-55km	d) 55-70km	
	,		ß
	54. Which of the fol	lowing UV radiations is responsible for causing sun burns and skin cancer	r?
	a) UV-A	b) UV-B	
	c) UV-C	d) All of the mentioned	
	55. In which season	is the ozone found at its maximum level in the northern hemisphere?	
	a) Winter	b) Summer	
	c) Spring	d) Autumn	
	56. When was the oa	zone hole discovered?	
	a) 1974	b) 1964	
	c) 1994	d) 1984	
	57. The ozone hole i	s a phenomenon that has occurred in:	
	a) Arctic region	b) Northern temperate region	
(c) Southern temperate	e region d) None of the mentioned	
۱	58. Which of the fol	lowing chemicals are responsible for the depletion of the stratospheric	
ď,	ozone layer?		
	a) Refrigerants	b) Propellants	
(c) Foam-blowing age	nts d) All of the mentioned	
	59. What does EESO	C stand for in context of ozone depleting compounds?	
	a) Equivalent Effect	ive Stratospheric Chlorine	
	b) Equivalent Effective	ve Stratospheric Chlorofluorocarbons	

c) Equivalent Energy Saving Compounds
d) Energy Effective Stratospheric
Compounds
60. The Montreal Protocol bans the production of which of the following chemica
substances?
a) Chlorine, bromine, CFCs, freons
b) Carbon tetrachloride, halons, trichloroethane, CFCs
c) CFCs, bromine, halons, freons
d) CFCs,
halons, freons
61. Eco-toxicology is the study of
a) Chemical interactions of organism and environment
b) Physical interactions of organism and environment
c) Thermal interactions of organism and environment
d) Biological interactions of organism and
environment
62. Hazard estimation in ecotoxicology is done based on
a) Accumulation
b) Bio-accumulation
c) SARA
d) H
W
L
63. Eco-toxicology is based on of chemicals.
a) Chemical b) Physical
c) Toxicological d)
Biological
64. Chronic toxicity is based on
a) NOEC b) AOEC
c) SOEC
d
) QEOC
65 According to TUPI which tool is used for determining equation to visitue
65. According to TURI which tool is used for determining aquatic toxicity? a) P2SD b) P3SFD
c) P2OASys d) P20FR
C) 1 2011035 U) 1 20110

66. Toxicity ranking from T	CoxPi is based on
a) Suborganismal tests	b) Organismal test
c) P2SO d) EC	100
67 models provide	ecotoxicity endpoint.
a) QASR b) QSAR	
c) QAWS d) QSEA	
68. species is us	sed as screening of chemicals.
-	b) Folsomia candida
c) Enchytraeus albidus	
, ,	
69. The fluoride concentrati	on for prevention of dental caries is
a) 1mg/l b) 2mg	
c) 3mg/l d) 4mg/l	
c) 3mg/1	
70 In which process, the flu	oride content of water is raised?
a) Chlorination	b) Fluoridation
c) Defluoridation	d) Flocculation
c) Defidoridation	d) I locculation
71 Which of the following	is not used as a fluoride compound?
-	V- V-
, and the second	b) Sodium silico fluoride
c) Hydrofluosilicic acid	d) Sodium fluro carbonate
70 W/L:-1641 - 6-11:-	10
72. Which of the following	
a) Sodium fluoride	b) Sodium silico fluoride
c) Hydrofluosilicic acid	d) Sodium fluro
carbonate	
	is considered, which of the following is used for fluoridation?
a) Sodium fluoride	b) Sodium silico fluoride
c) Hydrofluosilicic acid	d) Sodium fluro
carbonate	
74. What happens when wa	ter contains 8-20 ppm of fluoride concentration?
a) Blue baby disease	b) Crippling fluorosis
c) Dental fluorosis	d) Mottling
of teeth	
75. The process of reducing	the fluoride content from water is called
a) Chlorination	b) Fluoridation
c) Defluoridation	d) Flocculation

76 Which of the following is no	ot used for defluo	ridation?	
a) Calcium phosphatec) Alum	b) Copper d) Bone cl		
76. At which temperature, the phosphate?a) 100-200oC c) 400-600oC		ed during defluoridati	on with calcium
77. Which material is used in	contact filters for	r the removal of fluor	ides?
a) Calcium phosphate	b) Copper	sulfate	
c) Synthetic tri-calcium phos	phate d) Bone		
78. Which material is used fo 3ppm offluorides? a) Lime	r removing fluori		containing
c) Synthetic tri-calcium phosph	nate d) Bone cl	narcoal	
b) Tri-calcium phosphate and c c) Di-calcium phosphate and p d) Tri-calcium phosphate and c 80. Acid rain means	hosphoric acid	e	
a. Heavy rain b. l	Drizzle c. Aı	ny precipitation	d. None of these
81. The primary cause of acid	d rain around the	world is	
a. Carbon dioxide	b. Sulphur	dioxide c. Carbon r	nonoxide d. Ozone
82. Which of the following is	a source of SO ₂	in atmosphere?	
a. Volcanoes b. Therma	l power plants	c. H ₂ SO ₄ manufact	turing d. All of
these			
83. Acid rain is mainly influe	enced by		
a. Deforestation b. A	Agriculture c. Pr	resence of particulate	ed. None of these
84. The P ^H of unpolluted rain	water[Acid rain	water] is about	
a. 8.7 b. 3.7	c. 5.7	d. none if these	
85. The PH of acid rain is			
a. Less than 5.7 b. 1	Less than 3.7	c. Less than 2.7	d. Less than 1.7
86. Which of the following is	the source of NO	O ₂ in the atmosphere?	,
a. Automobile exhaust	b. M	icrobial action	

	c.	HNO ₃ manufactur	ring	d. Allo	of these	
8	37. WI	hich of the following	ng statement is	true?		
	a. Acid rain results in acidification of water bodies					
	b.	Acid rain reduces	soil fertility		c. Both a & b	d. None of these
8	88. At	mospheric oxidatio	on of SO ₂ to SO	O ₃ is infl	uenced by	
	a.	Sunlight	b. Humidity	c. Pres	sence of hydrocarbo	ons d. All of
		these				
8	39. Th	e process of mover	ment of nutrien	its from	the soil by the acid	rain is called
	a.	Transpiration	b. Evapo trans	spiratio	c. Leachir	ng d.
		Infiltration				
Ģ	90. Ac	id rain has been in	creasing day by	y day du	ie to	
	a.	Urbanization	b. Industriali	ization	c. Increase in vehi	icle population d.
		All				
Ò	91. Ac	id rain effects on			-19:46	
	a.	Materials	b. Plants		c. Soil d.	All
Ģ	92. Th	e effect of acid rain	1			
	a.	Reduces soil fert	ility b. Inci	reases at	tmospheric tempera	ature
		c. Causing respira	tory problems		d. Skin cancer	
Ģ	93. WI	hich of the following	ng is not ill effe	ect of ac	rid rain?	
	a.	Leaching of heav	y metals to wat	er bodie	es	
	b.	Damage of sculpt	ures			
	c.	Killing of fishes				
	d.	Increase in the a	tmospheric te	mperat	ure	
G	94. WI	hich of the following	ng is not ill effe	ect of ac	rid rain?	
	a.	Leaches nutrient	s from the soi	1	b. It causes stone	erosion
		c. Killing of fishe	S	d. Cau	ses cataract	
Ģ		hich of the following				
	a.	Acid rain results i	n acidification	of wate	r bodies	
	b.	Acid rain reduces	soil fertility			
		It causes stone car		- •		All the above
Ģ	96. Re	duction in brightne				
	a.	Global warming			c. Ozone depletion	n d. None of these
Ģ	97. Th	e term acid rain wa		e year		
	a.	1952	b. 1852		c. 1652	d. 1752

98. Carbon dioxide reacts with moister in the atmosphere forming						
a.	CaHCO ₃	b. H ₂ CO ₂	c. H₂CO₃	d. COHb		
99. Oz	99. Ozone layer is present in (II-2007)					
a.Tropo	sphere	b. Stratosphere	c. Mesosphere	d. Thermosphere		
100.	Which of the	following is not presen	nt in the Stratosphere?			
a.	CO₂ b. O ₂	c. O ₃	d. NO _X			
101.	Which of the	following is the unit fo	or measuring the thickn	ess of ozone layer?		
a.	Decibels	b. Dobson unit	c. Centimeter	d. None of these		
102.	In the stratosp	ohere, ozone is an effec	ctive filter capable of a	bsorbing ultraviolet		
rad	liation with wavele	engths between				
a.	200 and 315 nm	b. 315 and 400 nm	c. 100 and 150 nm	d. 400 and 600 nm		
103.	Which of the	following UV radiatio	n can rapidly damage b	piota of all types?		
a.	UV-A	b. UV-C	c. UV-B	d. None of these		
104.	UV-C radiation	on lies in the region		-		
a.	315 to 400 nm	b. <280 nm	c.> 280 nm d. 280	to 315 nm		
105.	Which of the	following statements	about ozone is true?	(I-2008)		
a). Ozon	ne is a major consti	tuent of photochemica	l smog			
b). Oz	zone protects us fro	om the harmful uv radi	ation of sun			
c). Oze	c). Ozone is highly reactive					
d). All o	f the above					
	32.5					
106.		, and the second	oout Ozone is not true?			
a.	a. Ozone is a major constituent of photochemical smog					
b. Ozone protects us from the harmful UV radiation of sun						
c.						
	Ozone is highly re					
107.	•	•	ric ozone layer across t			
a.	200DU	b. 300DU	c. 400DU	d. 500DU		
108.	Ozone layers					
a.	UV rays	b. Infrared rays	c. Cosmic rays	d. CO		
109.	Major compo	und responsible for the	e destruction of stratosp	oheric ozone layer is		
a). Oxyg	gen b). CF	CC c). Ca	rbon dioxide d). M	lethane		
110.	Chlorofluro C	Carbon's [CFC] are				

a.	Nontoxic	b. Nonflamma	ible c. Non c	arcinogenic	d. All the above			
111.	CFC's have	been used as						
a.	a. Solvents b. Refrigerantsc. Blowing agents for polymer foams d. All of these							
112.	The formula	of CFC-114 is						
a.	CF2ClCF2Cl	b. CFCl ₂ CF ₃	c. CF ₃ Cl	F ₂ Cl d. Noi	ne of these			
113.	The ODP of	a specific chemi	cal takes into acc	count.				
a) The 1	reactivity of the s	pecies.	b) Atmospheric	lifetime of t	he species.			
c) N	Molar mass of the	•						
114.	Which of th	hich of the fallowing species has the zero ODP value?						
a) CFC	Cs b) I	HCFCs	c) HFCs	d) no	ne of these.			
115.	Which of th	e following state	ement is not cor	rect for CF(Cs?			
a) They	are almost co	mpletely inert l	ooth chemically	& biologic	eally in the earth's			
atmos	sphere.			3 300				
b) They	are very reactiv	e in tropospher	е.					
c) At hig	gher altitudes the	y are capable of ı	undergoing UV p	hotolytic dec	composition.			
d) None	of these.							
116.	Each chloring	ne free radical car	n destroy the foll	owing number	er of ozone			
mo	olecules							
a.	1000	b. 10,000	c. 1,00, 0	000	d. 100			
117.	Freon's are	1000						
a.	HFC b. C	FC	c. NFC	l. Hydrocarb	ons			
118.	The ozone l	ayer is located u	p to	km above	the earth surface.			
a.	10	<i>b)</i> 50	c) 80	d) 10	0.			
119. The steady decline of ozone in the stratosphere is called.								
a. Ozone destruction			b) ozone	b) ozone hole or ozone thinning				
c) ozone formation			d) none	d) none of these				
120.	Ozone in t	roposphere is						
a.	Harmful	b) Harmless	c) Neutr	al d) No	one of these			
121.	Formation	of ozone layer is	explained by					
a. Rosenmund reaction			b). Hen	b). Henderson's reaction				
c). Chapman's reaction			d). Perki	d). Perkin's reaction				

122.	Ozone hole was first discovered over							
a.	Arctic	b) Antarctica c) tro	pical region	d) Africa				
123.	The equivalent of one Dobson unit is (II-2008)							
a.	0.1mm	b) 0.01 mm	c) 0.1m	d) 0.01m				
124.	Ozone depletion causes							
a.	Snow blindness	b. Photochemical sm	nog c. Acid rain	d.				
	Vomiting							
125.	World Ozone day is being celebrated on (I-2008)							
a.	September 5 th	b) October 15 th	c) September 16 th	d) September 11 th				
126.	Bhopal gas tragedy caused due to leakage of							
a.	Methyl Iso Cyan	ate b. Sulphur di	oxide c. Mustard ga	as d. Methane				
127.	Which of the following statement is true about animal husbandry?							
a.	Animal husbandry is a part of agricultural activity							
b.	Animal husbandry is breeding, feeding and management of animals							
c.	Animal husbandry is nothing but livestock production							
d.	Animal husbandry is protection of wild life							
128.	Which of the following is the purpose of animal husbandry?							
a.	a. Conservation of biodiversity b. Production of meet c. Co							
	of wildlife	d. None of these						
129.	Domesticated animals are used for							
a.	Production of dairy products b. Production of fiber c. Draught d. All of these							
130.	Animal husbandry may result in							
a.	Global warming	b. Acid rain	c. Ozone depletion	d. None of these				
131.	Over fishing i	S						
a.	Undesirable	b. Desirable	c. Necessary	d. None of these				
132.	Increased demand for the food from animal origin is due to							
a.	Environmental vegetarianism b. Animal welfare activities. C. Change in the							
	diet of people		d. None of these					
133.	Which of the following statement is not true?							
a.	Animal production is strongly influenced by socio-cultural factors							
b.	Animal production has enormous impact on local environment							
c.	Animal production doesn't cause noise pollution							

d. Animal production depends on agro-ecological conditions

CFC'S brand name:-

- CFCl₃ Trichlorofluromethane-CFC-11
- CF₂Cl₂ Dichloro-dofluromethane-CFC-12
- C₂F₃Cl₃ Trichloro-trifluoroethane-CFC-113
- C₂F₄Cl₂ Dichloro-tetrafluoro ethane CFC-114
- C₂F₅Cl Chloropentafluoro ethane- CFC-115

