Nam Eni	ie: colmen	ıt No:							
	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES								
	End Semester Theory Examination, July 2020								
Cou	Course: Environmental Studies Semester: II								
		B.Sc (F, N&D)			Time :3hrs				
		ode: HSFS1001			Max. Mark				
		ns: Read questions car	ofully All questions	are compulsory		5. 100			
11151		is. Reau questions car	Toxicity of						
			pesticides, detergents	Fish migration					
			and chemicals in the	is affected due					
			effluents increases	to formation of					
		Effect of thermal	with increase in	various thermal					
1	CO3	pollution is/are	temperature	zones	Both (a) and (b)	None of these			
		Identify the technology							
		adopted to control							
2	CO3	thermal pollution.	Bag house filter	Cooling tower	Settling chamber	Cyclone			
		Identify the strategies	<i>C</i>	U	C C				
		that can be adopted for		Surface crop					
3	CO2	water conservation.	Contour cultivation	residues,	Water spreading	All of these			
		Identify the human							
		activities that have							
		been the main cause							
		(s) for increasing the							
		severity and frequency	Clearing of forests	Construction of					
4	CO3	of floods.	for agriculture	roads	Both (a) and (b)	None of these			
		BOD stands for	biological oxygen	biological	biomedical oxygen				
5	CO1	DOD stands for	demand	oxygen decay	demand	None of these			
		Tea gardens in Chhota		enggen accuj					
		Nagpur has							
		disappeared due to							
6	CO2		deforestation	Soil erosion	landslide	None of these			
		Highest Dam in India							
7	CO1	is	Tehri	Bhakra	Sardar Sarovar	Hirakund			
		The Satluj-Yamuna							
		link (SYL) canal							
		dispute is between							
8	CO1	Punjab and	Haryana	Uttar Pradesh	Uttarakhand	Orissa			
		Effects of groundwater		Lowering of					
9	CO2	usage is/are	Subsidence	water table	Both (a) and (b)	None of these			
		Nature has provided us							
		with all the resources							
		for leading a beautiful							
		life and she nourishes							
10	CO4	us like a mother, we should respect her and	Man contria	Foo contria	Both (a) and (b)	None of these			
10	CO4	should respect her and	Man-centric	Eco centric	Both (a) and (b)	None of these			

				T		
		nurture her", this				
		isthinking.				
		Grassland ecosystem				
		showspyramid				
11	CO3	of numbers.	Upright	Inverted	Spindle	None of these
		Functional attributes of				
12	$CO^{2}$		Easd shain	nnoducon	Doth (a) and (b)	None of these
12	CO3	an ecosystem is/are	Food chain	producer	Both (a) and (b)	None of these
		Economically				
		unproductive lands				
		suffering from				
		environmental				
		deterioration are		Sanitary		
13	CO2		Wastelands	landfill	Doth (a) and (b)	None of these
13	CO2	known as	vv astoralius		Both (a) and (b)	
		Solid waste can be				All of the
14	CO3	disposed by	Incineration	Composting	Sanitary landfill	above
		World environment				
		day is celebrated				
15	CO1	on	05 june	05 july	05 may	None of these
15	COI	011	05 June	0.5 July	05 1114 y	None of these
		Benefits of big dams	providing	control water	displacment of tribal	
16	CON				-	Name of these
16	CO2		employment	pollution	people	None of these
		The succession starting				
		in dry area with little				
		moisture is known as				All of the
17	CO1		Mesosere	Hydrosere	Xerosere	above
		Wildlife act, a		<b>)</b>		
		landmark in the history				
		•				
		of wildlife legislation				
		in our country, came				
		into existence in				
18	CO1	year.	1971	1972	1973	1974
		a foul				
		smelling gas, added to				
		LPG so that any				
		leakage of LPG from				
		the cylinder can be				
19	CO2	detected.	Ethyl mercaptan	Propane	Ethane.	Methane
		If you are a climate	· · ·			
		change expert you				
		have suggested few				
		solutions /steps to				
		slow down the process				
		of global warming.		stabilizing the		
		Select the correct	Shift to renewable	population	reduce beef	
20	CO4		energy resources	growth	production	All of these
20	004	The urban solid waste	chergy resources	5 <sup>10</sup> wti	Production	
		materials that can be				
		degraded by				
		microorganisms are				
21	CO1	calledwastes.				
				I	1	

	1				
		Thermal pollution can			
		be defined as presence			
		of waste oil in the			
		water which can cause			
		undesirable changes in			
		the natural			
22	CO1	environment.	True/False		
		CPCB stands for			
23	CO1				
		Species which are			
		restricted only to a			
2.1	<b>G</b> 00	particular area are			
24	CO2	known as			
		the cure for			
		malaria is obtained			
		from the bark of			
25	CO2	Cinchona tree.			
		Sometimes, the loss of			
		habitat is in			
		instalments so that the			
		habitat is divided into			
		small and scattered			
		patches, a			
		phenomenon known as			
26	CO2				
		Carbon monoxide			
		(CO) reaches lungs			
		and combines with			
		haemoglobin of blood			
27	CO3	to form			
21	005				
		In 1953, people in			
		Japan suffered from			
		numbness of body			
		parts, vision and			
		hearing problems and			
		abnormal mental			
		behaviour. This			
		disease is known as			
28	CO3				
20	005	Substances like DDT			
		are not water soluble			
		and have affinity for			
		body lipids. These			
		substances tend to			
		accumulate in the			
		organism's body.			
		This process is called			
29	CO3	p100000 15 041104			
		If you are an			
		earthquake expert			
		name the type of			
		house you will			
30	CO4	recommneded in			

		earthquake prone area			]
		Cartinquake profile area			
		Pollen grain is an			
		example of natural			
31	CO1		True/False		
		The point on a fault at			
		which the first			
		movement occurs			
22	COL	during an earthquake			
32	CO1	is called the Forest act deals with			
		the conservation of			
		forests and related			
		aspects. Except			
		, the act is			
33	CO1	adopted all over India.			
	001	•			
		First step of ecological			
24	000	succession process			
34	CO2	is			
		Grazing food chain			
		starts withand culminates in			
35	CO2	carnivores.			
- 33	02	is a nuclear			
		change in which			
		nucleus of certain			
		isotopes with large			
		mass numbers are split			
		into lighter nuclei on			
		bombardment by			
		neutrons and a large			
		amount of energy is			
		released through a			
36	CO2	chain reaction.			
		In dry cooling tower,			
		hot water is sprayed			
		over baffles. Cool air			
		entering from sides			
		takes away the heat			
		and cools the			
		water. This cool water			
27	CO2	can be recycled or	Trans (Eslas		
37	CO3	discharged.	True/False		

				1		
		In nitrogen cycle, after				
		death of the plants and				
		animals, the organic				
		nitrogen in dead				
		tissues is decomposed				
		by several groups of				
		ammonifying and				
		nitrifying bacteria				
		which convert them				
		into ammonia, nitrites				
20	ana	and nitrates, which are	<b>m m</b> 1			
38	CO3	<u> </u>	True/False			
		Oxygen gas and its				
		radioactive daughters				
		are responsible for a				
		large number of lung				
		cancer deaths each				
39	CO3	year.	True/False			
		You are an				
		environmental				
		engineer in a				
		government				
		organization.During				
		one of your official				
		visit you find that there				
		are large number of				
		hot springs in the state.				
		So you suggest				
		energy to be				
		harness from the hot				
		springs to meet the				
10	004	energy demand of the				
40	CO4	state.				
		Nitrate when present	Methaemoglobinemia			
		in excess in drinking	or blue baby			
41	CO4	water causes	Syndrome	Itai-Itai	Typhoid	Fluorosis
41	04		Synatome	11a1-11a1	1 yphota	1 10010515
		The greenhouse gases				
		present in the				
42	CO3	troposphere is/are	Carbon dioxide	Methane	Chlorofluorocarbons	All of these
	005	Pollution by another	Curbon dioxide	Trethane	Childronuorocuroonis	The of these
		heavy metal cadmium				
		in drinking water had				
		caused the disease				
12	$CO^{2}$	calledin the	Minimoto diagona	Itai Itai	Plus hehr andress	Fluoresia
43	CO3	people of Japan	Minimata disease	Itai-Itai	Blue baby syndrome	Fluorosis
		The United Nations				
		Universal Declaration				
		on Human Rights				
	a a -	[Article] has	<b>27</b> (1)			
44	CO3	declared that right to	25(1)	25(3)	25(2)	25(7)

		housing is a hosis				
		housing is a basic				
		human right.				
		Ozone molecule				
		contains				
15	COL			4771.0	41	Eaur
45	CO1	oxygen atom	one	two	three	Four
		Cholera, Dysentery,				
		Typhoid and Jaundice		air borne		
46	CO1	are an example of	water borne disease	disease	soil borne disease	None of these
		is a type of				
		mining in which				
		chained buckets and				
		draglines are used				
		which scrap up the				
		minerals from under-		Open-pit		
47	CO1	water mineral deposits.	Dredging	mining	Strip mining	None of these
		Major consequences of	Hydrological cycle	Problems of		
48	CO2	deforestation is /are	gets affected	soil erosion	landslides.	All of these
		Anthracite,				
		Bituminous and				
		Lignite are examples				
49	CO2	of	Coal	Copper	Iron	Gold
		Identify the strategy				
		which is adopted for		construction of		
50	CO4	-	deforestation	dams	Water spreading	None of these
		Landslides occurs				
		when coherent rock of				
		soil masses move				
		downslope due to				
51	CO2	gravitational pull.	True/False			
		There are two popular				
		indices of measuring				
		species diversity				
		known as Shannon-				
		wiener index and				
52	CO1	Simpson index	True/False			
		A large number of				
		windmills installed in				
		clusters called				
53	CO1					
		Excessive fertilizers				
		use in Punjab and				
		Haryana has caused				
		deficiency of the				
		micronutrient				
		in the soils,				
		which is affecting				
	_	productivity of the				
54	CO1	soil.	Zinc			
		PCBs stands for				
55	CO1	1		1	1	

		Calact the arms of				1
		Select the correct				
		methods adopted to			DI	
	<i></i>	control noise	Reduction in sources		Planting more trees	
56	CO4		of noise	Through Law	having broad leaves	All of these
		The Cauvery river				
		water is a bone of				
		contention between				
		Tamilnadu and				
57	CO2	Maharastra.	True/False			
		The term hotspot of				
		biodiversity was				
58	CO1	coined by				
		are the				
		organisms derive their				
		nutrition by breaking				
		down the complex				
		organic molecules to				
		simpler organic				
		compounds and				
		ultimately into				
59	CO2	inorganic nutrients.				
		To protect soil from				
		erosion, a form of inter				
		cropping is done in				
		which crops are				
		planted between rows				
		of trees or shrubs. This				
		form of intercropping				
60	CO4	is called				
				It will result in		
				decrease in		
				their population		
				thereby		
				affecting the		
				population of		
				zooplankton,		
				fish, marine		
				animals, in fact		
				the whole		
		Effects of Ozone		aquatic food		
61	CO3	Depletion is /are	Biomagnification	chain.	Both (a) and (b)	None of these

You are a solid waste management specialist of X town. During one of your official visit you find that X city is facing a problem for disposing solid waste. So you propose a technique in which	
of X town. During one   of your official visit   you find that X city is   facing a problem for   disposing solid waste.   So you propose a   technique in which	
of your official visit you find that X city is facing a problem for disposing solid waste. So you propose a technique in which	
you find that X city is facing a problem for disposing solid waste. So you propose a technique in which	
you find that X city is facing a problem for disposing solid waste. So you propose a technique in which	
disposing solid waste. So you propose a technique in which	
disposing solid waste. So you propose a technique in which	
So you propose a technique in which	
technique in which	
garbage is spread out	
in thin layers,	
compacted and	
covered with clay or	
plastic foams. The	
bottom layer of garbage is covered	
with an impermeable	
liner, usually several	
layers of clay, thick	
plastic and sand. The	
liner protects the	
ground water from	
being contaminated	
due to percolation of	
leachate. Leachate	
from bottom is	
pumped and sent for	
treatment. Name this	
proposed technique/	
62 CO4 method	
aquifers	
which are overlaid by	
permeable earth	
materials and they are	
recharged by water	
seeping down from	
above in the form of	
rainfall and snow melt	
whereas	
aquifers are	
sandwitched between	
two impermeable	
layers of rock or	
sediments and are	
recharged only in	
those areas where the	
aquifer intersects the	
63 CO2 land surface.	
NBPGR stands	
forand is	
64 CO1 located in	

		r			T	1
		The Antarctic ozone				
		hole was discovered				
		byand his				
		colleagues in the				
		British Antarctic				
		Survey who had been				
		•				
		recording ozone levels				
	~~ .	over this region since				
65	CO1	year				
		Suggest a control				
		method, which can be				
		adopted to control				
		adverse effect of acid				
		rain on lake and river				
66	CO4					
00	004	It is estimated that the				
		earth' s mean				
		temperature will rise				
	<b>a a a</b>	between°C to				
67	CO3					
		The main greenhouse				
		gasis				
		absorbed by the forests				
		as a raw material for				
68	CO2					
		Bhakra dam is situated				
		on riverin				
69	CO1	m				
07	0.01	Each food level is				
		known asand				
		the amount of living				
	a a i	matter at a given time				
70	CO1					
		It is witnessed that in				
		rural area, villagers are				
		opting for biogas as a				
		fuel. Select the				
		reasons due to which				
		biogas is becoming a				
		popular choice among				
71	CO4		cheap	clean	non polluting	All of these
/ 1	0.07	The effects of air	uncup			
70	CO2	pollution on plant is/		alasiasias		All of the sec
72	CO3	are	necrosis	absicission	epinasty	All of these
		Chemical conditioners				
		likewhen				
		applied to sodic soils				
		improveand	gypsum, soil			DDT, soil
73	CO2	reduce run off.	permeability	eldrin, soil pH	humus, soil fertilty	fertility
		of Rajasthan				
		popularly known as		Rajendra		R.K.Pachuri,
		" water man" has	Ashok Gehlot,	Singh, building	Sachin Pilot,	controlling
74	CO1	been doing a	building roads	checkdams	afforestation	global warming
/4	CUI	occir doilig a	ounding toaus	Uncekuanns	anoicstation	giobal warning

		1.1.1 1.6				1
		commendable job for				
		harvesting rainwater				
		byin				
		Rajasthan				
		Earthquake-generated				
		water waves called				
		can severely				
		affect coastal areas.				
		These giant sea swells				
		can move at a speed				
		uptoKm/hr		Willy		
75	CO1	or even faster.	Tsunamis,1000	Willies,100	Saltation,500	Suspension,500
	001	Suggest the measures	100000		Sultation,e oo	Suspension,eeo
		which help in in-situ				
		conservation of	Zoo	Garden	National park	All of these
76	CO4	biodiversity				
70	004					
		Easy absorption of UV				
		rays by the lens and				
		of eye will				
	000	result in increase in		D 11	I. TD	optic nerve,
77	CO3	incidents of	cornea,cataract.	Pupil, cancer	Iris, TB	typhoid
		, the				
		lowermost layer of the				
		atmosphere, traps				
		by a natural				
		process due to the				
		presence of certain				
		gases. This effect is				
		called greenhouse		Stratosphere,		Thermosphere,
78	CO2	effect.	Troposphere, heat	mositure	Mesosphere, cold	steam
		The direct use values				
		where the biodiversity				
		product can be				
		harvested and				
		consumed directly is				
		known as				
		value of				
79	CO1	biodiversity.	Consumptive	Productive	Social	Aesthetic
		The International		1		
		Union for				
		Conservation of				
		Nature and Natural				
		Resources (IUCN)				
		publishes the				
		which				
		includes the list of				brown data
		species of	red data book,	yellow data	green data book,	book,
80	CO1		-	•	vulnerable	vulnerable
80	COI	plants and animals.	endangered	book, extinct	vumerable	vumerable
		Conservation of				
		biodiversity outside				
0.1	001	the natural habitat is		<b>T</b>		<b>.</b> .
81	CO1	called as	Ex- situ	In-situ	Conservation	In-vivo

		The environmental				
		damage caused by				
		mining activities is	Devegetation and	Subsidence of		
82	CO3		defacing of landscape	land	Air pollution	All of these
		Several mechanical				
		measures like				
		terracing, bunding,				
		bench terracing, no-till				
		farming, contour				
		cropping, strip				
		cropping etc. are used				
		to minimize runoff and				
		soil erosion				
		particularly on the				
		slopes of watersheds				
		are an example of				
		watershed				
83	CO2	management practices	True/False			
		Heavy rainfall often				
		causesin low-				
84	CO3					
04	05					
		The flow of energy in				
05	COL	an ecosystem is	Trana / Falaa			
85	CO1	unidirectional.	True/False			
		Heavy duty diesel				
		vehicles spew more				
		NOx and suspended				
		particulate matter				
		(SPM) than petrol				
		vehicles which				
		produce more carbon				
		monoxide and				
86	CO2	hydrocarbons.	True/False			
		Genes are the basic				
		units of hereditary				
		information				
		transmitted from one				
87	CO1	generation to other.	True/False			
	ł	refers to the				
		variety and variability				
		among all groups of				
		living organisms and				
		the ecosystem				
		complexes in which				
88	CO1	they occur.				
00						
		Primary productivity				
		of an ecosystem is defined as the rate at				
		which radiant energy				
		is converted into				
		organic substances by				
		photosynthesis or				
89	CO2	chemo-synthesis by	True/False			

		the primary producers.				
		The Cuere demosite on				
		The Guano deposits on the coasts of Peru are				
		very rich sources of				
90	CO1					
		The main impacts of				
		traditional agriculture			Depletion of	
91	CO3	is/are	Deforesation	soil erosin	nutrients	All of these
				Man and		
02	002	Threats to biodiversity	Deceluin	wildlife	$\mathbf{D}_{\mathbf{a}}(\mathbf{b}) = (\mathbf{a}) + (\mathbf{a})$	None - 6 (1
92	CO3	is /are Water has a high	Poaching	conflict	Both (a) and (b)	None of these
		. Hence, it				
		takes a huge amount of				
		energy for getting				
		vaporized. That' s				
		why it produces a				
02	CON	cooling effect as it	hailing naint	latent heat of	Surface tension	Both (a) and
93	CO2	evaporates. Environmental	boiling point	vaporization	Surface tension	(b)
		education and mass				
		communication are				
		two important subjects	creating			
	~	that are instrumental in	environmental	enironmental		
94	CO3	Vinblastin and	awareness	modelling	Both (a) and (b)	None of these
		Vinblastin and Vincristine, two				
		anticancer drugs, have				
		been obtained from				
		Periwinkle				
95	CO1	(Catharanthus) plant.	True/False			
		National Parks are also				
		protected areas where				
		killing, hunting, shooting or capturing				
		of wildlife is				
		prohibited except				
		under the control of				
96	CO2	highest authority.	True/False			
		Dhypical factors of a				
97	CO1	Physical factors of an ecosytem is/are	Producer	Decomposer	Water availability	Consumer
)1	01	Man made source of	Tioducei	Decomposer		Consumer
98	CO1	air pollution is	Agricultural activities	Pollen grains	Both (a) and(b)	None of these
		is a common				
		fuel used in Brazil and				
	000	Zimbabwe for running	LDC			and
99	CO2	cars and buses.	LPG	CNG	Gasohol	SNG

		A group of solar cells joined together in a definite pattern form a which can harness a large amount of solar energy and can produce electricity enough to run street- light, irrigation water pump			
100	CO4	etc.	solar panel		