Sample paper (MSc. Environmental Science)					
Q. No.	Question Text	Option A	Option B	Option C	Option D
1	An ecosystem gradually merges with an adjoining one through a transitional	Ecological niche	Ecological footprint	Ecotone	Ecosphere
2	The Indian Parliament passed the Biodiversity Bill in	2000	2005	2001	2002
3	EIA is a which helps to evaluate environmental impact of proposed developmental	Quantitative	Tool	Subjective	Clearance
4	The first protected area in India is	Silent valley	Corbett National Park	Bandipur sanctuary	Kanha National Park
5	The components of LPG are;+M22	Methane & Hexane	Propane & Butane	Ethane & Methane	Methane & Butane
6	Which of the following conceptual spheres of the environment is having the	Atmosphere	Hydrosphere	Lithosphere	Biosphere
7	Which of these layers of the atmosphere consists of the ozone layer that is responsible for absorbing	Troposphere	Mesosphere	Stratosphere	None of these
8	Which of these are essential non-metallic minerals?	Coal, silica, clay, cement	lron, copper, aluminium, zinc	Gold, platinum, silver	Granite, limestone, marble
9	The environmental lapse rate is related to:	Change in atmospheric temperature with altitude	Change in atmospheric temperature with latitude	Change in atmospheric Pressure with latitude	Change in Rainfall with latitude
10	Septic tank is:	An aerobic attached growth treatment system	An aerobic suspended growth biological treatment system	An anaerobic attached growth biological treatment system	An anaerobic suspended growth treatment system
11	Biochemical Oxygen Demand measures:		Air pollution	Pollution capacity of effects	Dissolved O2 needed by microbes to decompose organic waste
12	Air pollution from automobiles can be	Cyclone separator	Electrostatic precipitator	Catalytic converter	Wet scrubber
13	Which one of these does NOT refer to the direct use	Grass for grazing	Gums and resins	Medicine	Bamboo for baskets
14		Extinction of species	Increasing use of wood	Building dams and mining	Extensive usage of fuel woods
15	Which of these elements is considered to be the largest source of commercial energy consumption in the world?	Nuclear	Natural gas	Oil	Coal

	How many total numbers of				
	biodiversity hotspots are	36	32	28	18
16	there in the world?				
	Which two forms of alcohol	Methanol and	Propanol and	Propanol and	
17	do we include in biofuels?	Ethanol	Ethanol	Methanol	None of the above
	The pre-maustria				
18	concentration of CO ₂ in the	260 ppm	315 ppm	230 ppm	280 ppm
19	The average salinity of sea	0.018	0.02	0.025	0.035
_			Due to the	Due to the	
	The main reason for	Due to the	absorption of	scattering of	
	blueness of the sky is -	presence of	blue light due to	sunlight by air	None of the above
20	, , , , , , , , , , , , , , , , , , , ,	water vapor	the air	molecules	
	The mosquito repellent that				
	is used in the homes in the	Sedatives	Pesticide	Insecticide	Fertilizers
21	form of a coil, liquids, etc.				
	Which of the following gas				
	destroys the chlorophyll	SO3	H ₂ S	SO ₂	CO2
22	present in the plant leaves?				
	In which city India's largest				
	Bio-CNG plant was	Duno	Indore	Dongoloro	Delhi
	inaugurated recently to	Pune	muore	Bangalore	Deini
23	focus on 'Waste to Energy'				
	In May 2020, a Geographical				
	Indication (GI) tag was given	Uttarakhand	Kerala		
	to flower for its unique	Rhododendron	Neelakurinji	Kashmiri Saffron	Madurai Jasmine
	features like longer stigmas,	KIIOUOUEIIUIOII	Neelakui IIIji		
24	deep-red color, high aroma,				
	The two Indian cities jointly				
	recognized as the '2021 Tree				
	City of the World.' by United	Hyderabad and	Bangalore and	Hyderabad and	Kerala and Madurai
	Nations Food and Agriculture	Mumbai	Mumbai	Pune	
	Organisation (UN-FAO) along				
25	with Arbor Day Foundation				
	Scoping is procedure of				
26	environmental	Identifying	Impact	Physical impact	Attributes
	India's first organic waste-				
	powered Electric Vehicle (EV)	Hyderabad	Mumbai	Baroda	Delhi
27	charging station is				
	State that launched the	Madhya Pradesh	Jharkhand	UttarPradesh	Himachal Pradesh
28	"Single-Use Plastic Buy Back	,			
	India has committed to				
	achieve 500 GW of installed	COP 26	COP 24	COP 27	COP 22
	electricity capacity from non-	-			
29	fossil fuel sources by 2030 at				
	India's largest floating solar	Tamil Nadu	Kerala	Telangana	Gujarat
30	power plant is in			ÿ	

	1				
	Automatic sirens near the				
	national highway, to protect	Orissa	Karnataka	Uttarakhand	Assam
	elephants from accidents has	e noou	Karnataka		7.000111
31	been installed by which state				
	Which Ministry gives				
	environmental clearance to	MHRD	MOEF	MNES	MoEF&CC
32	developmental projects in				
	Which country has the				
	highest incidence of	China	Bangladesh	India	Kenya
33	pollution linked deaths in the				
	Water Conservationist and				
	environmentalist also known	Rajendra Singh	Shirish Apte	Aabid Surti	Amla Ruia
34	as "Water man of India"				
	Which among the following				
	country is considered to	India	Brazil	Australia	South Africa
35	have the world's first				
	The concept of River	Landslides	Flood control	Waste	Cyclones
36	networking in India is related	Lanusilues		management	Cyclottes
	Rachel Carson in her book	Economical &			Impacts of agro-
	Silent Spring has raised	social impacts of	Deforestation	Climate change	chemicals on
37	concern on	environment			ecological functions
	Average composition of				
	biodegradable waste in	30 – 35%	40 – 45%	55 – 65%	60 – 70%
38	Municipal Solid Waste				
	Solar radiation before				
	entering the atmosphere	Atmospheric	Photosynthetic	Thermal constant	Solar constant
	carries energy at a rate of 2	constant	constant		Solar Constant
39	cal cm-2min-1, which is				
					Higher than the
	The amount of UV radiation				amount reaching
		Equal to the	Lower than the	Higher than the	the earth surface
	passing through the	amount reaching	amount reaching	amount reaching	near north pole and
	atmosphere and reaching	the earth surface	the earth surface	the earth surface	Lower than the
	the earth surface in the	near poles	near poles	near poles	amount reaching
	tropics near equator is				the earth surface
40					near south pole
	Potato slices are allowed to	Their water	Their water	Their water	Their water
		potential	potential	potential does not	potential becomes
41	dehydrate under the sun.	decreases	increases	change	Zero
	Where are hydathodes	Deatting	Loof marsing		Vulom trochoid
42	present in plant?	Root tips	Leaf margins	Xylem vessels	Xylem tracheid
	Organisms which do not				
	require any additional	Auxotroph	Heterotrophs	Herbivores	Phototrophs
43	growth supplements are				
	Nitrite reductase is present	Chloroplast of	Leucoplast of	Cutocol of larger	Mitochondria of
			roots	Cytosol of leaves	roots

				By employing	
	How do C4 plants avoid	By not using	By employing PEP carboxylase in mesophyll cells	RuBisCO in mesophyll cells and PEP	By closing their stomata during the
45	photorespiration?	RuBisCO	and RuBisCO in bundle-sheath cells	carboxylase in bundle-sheath cells	day
46	The ripe fruit falls off due the activity of	Ethylene	Auxin	Cytokinins	Abscisic acid
47	Which of the following can be used as Heart medicine?	Saponins	Pyrethroids	Cardenolides	Phenylalanine
48	Which of the following is present in the casparian strip of root endodermis?	Waxes	Cutin	Suberin	Cutinase
49	Bending of Avena coleoptiles is due to which	Phytochorme	Cryptochorme	Phototropin	Neochrome
50	In short day plants, flowering is induced by :	Long nights	Photoperiod less than 18 hours	Day length less than critical and long uninterrupted night	Day length slightly more than critical and long uninterrupted night
51	Identify from the following the only taxonomic category that has a real existence	Phylum	Species	Genus	Kingdom
52	Biological species concept was given by	Stanley	Hutchinson	Darwin	Mayr
53	Deuteromycetes are called imperfect fungi because	The sexual cycle has not been observed	They body shape is not properly developed	They do not produce mycelia	They have no asexual reproduction
54	Which of the following group of algae do not have	Green algae	Blue algae	Brown algae	Diatoms
55	The algal partner of lichen is	Mycobiont	Phycobiont	Saprotroph	None of the above
56	Stanley Miller synthesized in his experiment	Virus	Protein	Amino acid	Cell
57	Which of the following was not found in free form Connecting link between	Ammonia	Methane	Oxygen	Hydrogen
58	protozoa and one celled To be successful in evolution	Paramecium	Euglena Somatoplasmic	Amoeba	Trypanosoma
59	a mutation must occur in	Plasma proteins	DNA	Germplasm's DNA	RNA
60	Alleles are	Alternate forms of a gene	Homologous Chromosomes	Pair of Sex Chromosomes	None of these
61	Cu ₂ Cl ₂ is used as a catalyst in the chemical reaction involving the formation of	DDT	PVC	TNT	Glucose
62	The from ore magnetite	Fe ₂ O ₃	Fe ₃ OH ₄	FeCO ₃	3Fe2O3.3H2O
63	The nucleus of an atom consists of	Electrons and neutrons	Electrons and protons	Protons and neutrons	All of the above

	The number of moles of				
	solute present in 1 kg of a	Molality	Molarity	Normality	Formality
64	solvent is called its				
	The most electronegative	codium	Bromino	Eluorino	Overgon
65	element among the	sodium	Bromine	Fluorine	Oxygen
	The metal used to recover	Na	Ag	Hg	Fe
66	copper from a solution of	INd	~s	i ig	16
	The number of d-electrons in	p-electrons in	s-electrons in	d-electrons in Fe(Z	p-electrons in CI(Z =
67	Fe^{2+} (Z = 26) is not equal to	Ne(Z = 10)	Mg(Z = 12)	= 26)	17)
	The metallurgical process in				
	which a metal is obtained in	Smelting	Roasting	Calcinations	Froth floatation
68	a fused state is called				
	The molecules of which gas	H ₂ at -73°C	CH₄ at 300 K	N₂ at 1,027°C	O_2 at $0^{\circ}C$
69	have highest speed ?	11 ₂ at 75 C		N ₂ at 1,027 C	
	The oldest rocks in the				
	earth's crust were once				
	molten, and came from deep				
	inside the earth. The molten	Granite	Basalt	Igneous rocks	Sedimentary rocks
	rock, called magma, spewed				
	out in volcanic eruptions				
70	during the earth;s early life				
	The law which states that				
	the amount of gas dissolved	Dalton's law	Gay Lussac's law	Henry's law	Raoult's law
71	in a liquid is proportional to				
	The main buffer system of	$H_2CO_3 - HCO_3$	$H_2CO_3 - CO_3^{2-}$	CH ₃ COOH -	NH ₂ CONH ₂ -
72	the human blood is		112003 003	CH₃COO⁻	$\rm NH_2CONH^+$
	The gas present in the				
	stratosphere which filters				
	out some of the sun's	Helium	Ozone	Oxygen	Methane
	ultraviolet light and provides				
73	an effective shield against				
	The most commonly used	alcohol	Carbon dioxide	Chlorine	Sodium chlorine
74	bleaching agent is				
	The nucleus of a hydrogen	1 proton only	1 proton + 2	1 neutron only	1 electron only
75	atom consists of	. ,	neutron	,	,
70	The heat required to raise	specific heat	Thermal capacity	Water equivalent	None of the above
76	the temperature of body by	-	· · ·	· · ·	
	The nuclear particles which	alactrons	Docitrono	Noutrons	Macana
77	are assumed to hold the	electrons	Positrons	Neutrons	Mesons
77	nucleons together are				
	be obtained from the				
	reaction of 1.33 gram of P ₄	2.05 gram	3.05 gram	4.05 gram	5.05 gram
78	and 5.07 of ovugan is				
	The octane number of zero is	2-methyl octane	n-heptane	iso-octane	3-methyl octane
79	assigned to				

80	The metal that is used as a	Ni	Pb	Cu	Pt
81	catalyst in the hydrogenation What is 'dun' ?	A plain land within mountain	A transverse valley cut by river	A recent valley	A wide longitudinal strike valley
82	Isostasy term was first used	Airy	Wagner	Dalton	Dalton
83	What are the two most abundant elements in nebula (gas clouds) in the	Hydrogen and Helium	Nitrogen and Oxygen	Oxygen and Silicon	Iron and Nickel
84	Which of the following are barchans ?	Deflection Basin	Oasis	Crescent shaped dunes	Sand storms
85	Which of the following is associated with volcano?	Tillite	Morain	Varve	Tephra
86	Which of the following is formed by chemical	Morains	Bauxite	Gorge	Bajada
87	Esker is a type of	Moraine deposit	Eolian deposit	Glacial deposit	Fluvial deposit
88	Which of the following is an amorphous mineral ?	Opal	Cat's Eye	Topaz	Lapiz Lazuli
89	The discontinuity between outer core and inner core is	Mohorovicic Discontinuity	Conard Discontinuity	Repetti Discontinuity	Lehmann Discontinuity
90	Which of the following rock is found in Island arc?	Komateiite	Albitite	Syenite	Andesite
91	Earliest life on planet earth belongs to	Green algae	Cyanobacteria	Trilobite	Sponges
92	Old age fossils deposited in the younger age rocks are	Trace Fossils	Living Fossils	Derived Fossils	None of these
93	Which of the following is a living fossil?	Arca	Cardita	Lingula	Trigonia
94	Surface earthquakes waves of higher intensity causes	No disaster	Greater Disaster	Lesser Disaster	High intensity waves are never generated in surface earthquake.
95	The Richers scale is used for measuring the	Relative humidity of atmosphere	Intensity of earth's tremor	Electric conductivity of water	Speed of wind
96	The elements that makes up about 50% of the Earth's	Silicon	Iron	Oxygen	Aluminium
97	Asteroids are between	Mars and Jupiter	Mars and Earth	Jupiter and Saturn	Saturn and Uranus
98	The terms "Tethys Sea" was	Danna	Hall	Suess	Wegner
99	A plate comprises	Crust only	Crust and whole of the mantle	Crust and some part of mantle	Crust, mantle are some part of core
100	Oxy-bow lakes are generally associated with thestage of stream.	Youth	Mature	Old	In any stage of a stream