

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	<p>Thermal power generation in India is carried out by burning</p> <p>A1 : Natural gas</p> <p>A2 : Coal</p> <p>A3 : Oil</p> <p>A4 : Petrol</p>	4.0	1.00
Objective Question				
2	2	<p>Polar satellite orbit above the earth at about</p> <p>A1 : 10 km above the earth</p> <p>A2 : 20 km above the earth</p> <p>A3 : 50 km above the earth</p> <p>A4 : 100 km above the earth</p>	4.0	1.00
Objective Question				
3	3	<p>Species diversity show a marked pattern as one moves from equator to the poles. Species diversity:</p> <p>A1 : increases as one moves towards the poles from the equator</p> <p>A2 : decreases as one moves from equator to the poles</p> <p>A3 : remain constant as one moves from the equator to the poles</p> <p>A4 : is highest in the Arctic and Antarctic region</p>	4.0	1.00
Objective Question				
4	4	<p>Coral reefs are mainly distributed globally in:</p> <p>A1 : Temperate waters</p>	4.0	1.00

		<p>A2 : Tropical waters</p> <p>A3 : Antartic waters</p> <p>A4 : Arctic waters</p>		
Objective Question				
5	5	<p>Which among the following are the best tools/techniques to study landscape fragmentation?</p> <p>I Remote sensing II. Geodesy III. Cartography IV. Geographical Information System Choose the correct answer</p> <p>A1 : I and II only</p> <p>A2 : I, III and IV only</p> <p>A3 : II, III and IV only</p> <p>A4 : I, II, III and IV</p>	4.0	1.00
Objective Question				
6	6	<p>Water entrapped at the time of formation of the sedimentary rocks is called:</p> <p>A1 : Meteoric water</p> <p>A2 : Ground water</p> <p>A3 : Connate water</p> <p>A4 : Juvenile water</p>	4.0	1.00
Objective Question				
7	7	<p>BOD of the effluent discharged on land for irrigation should not exceed</p> <p>A1 : 30 mg/l</p> <p>A2 : 100 mg/l</p> <p>A3 : 300 mg/l</p> <p>A4 : 60 mg/l</p>	4.0	1.00

Objective Question				
8	8	<p>An ocean wave has a height of 3 m and has time period of 10 sec. The power available for extraction from this wave in the units of kW per meter of the wavefront is approximately:</p> <p>A1 : 30</p> <p>A2 : 60</p> <p>A3 : 90</p> <p>A4 : 120</p>	4.0	1.00
Objective Question				
9	9	<p>In the case of Silicon solar cell (Eg. = 1.12 eV), the maximum wavelength of solar radiations for production of electron-hole pairs is:</p> <p>A1 : -560 nm</p> <p>A2 : -720 nm</p> <p>A3 : -480 nm</p> <p>A4 : -1100 nm</p>	4.0	1.00
Objective Question				
10	10	<p>Which one of the following is not a biofertilizer?</p> <p>A1 : Aquatic ferns</p> <p>A2 : Blue-green algae</p> <p>A3 : Phosphate-Solubilizing micro-organisms</p> <p>A4 : Vermicompost</p>	4.0	1.00
Objective Question				
11	11	<p>Which of the following air pollutants are released by thermal power plants?</p> <p>I Oxides of nitrogen  II. Oxides of sulphur  III. Ammonia  IV. Carbon monoxide  Choose the correct answer</p> <p>A1 : I, III and IV only</p> <p>A2 : II and III only</p>	4.0	1.00

		<p>A3 : I, II and IV only</p> <p>A4 : I, II, III and IV</p>		
Objective Question				
12	12	<p>When DDT enters the human body, it is:</p> <p>A1 : water soluble and easily excreted in urine</p> <p>A2 : processed by enzymes and becomes a different compound which is toxic</p> <p>A3 : stored in the bones</p> <p>A4 : fat soluble and stored in fat tissues</p>	4.0	1.00
Objective Question				
13	13	<p>Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A): Methanogenic archae (methanogens) grow in swamps and sewage: Reason (R): Methanogens are obligate anaerobes. Choose the correct answer:</p> <p>A1 : Both (A) and (R) are correct and (R) is the correct explanation of (A)</p> <p>A2 : Both (A) and (R) are correct and (R) is not the correct explanation of (A)</p> <p>A3 : (A) is true, but (R) is false</p> <p>A4 : (A) is false, but (R) is true</p>	4.0	1.00
Objective Question				
14	14	<p>In an ecological succession there is a progressive change in biological community over time and space</p> <p>A1 : Old species are replaced by new one</p> <p>A2 : Old species evolved into new species</p> <p>A3 : New species moves in displacing previous one</p> <p>A4 : Each stage there is a modification in the environment to adopt new species</p>	4.0	1.00
Objective Question				
15	15	<p>In ADS – PAGE:</p> <p>A1 Polymeric proteins are not only converted into monomers, but monomers are also denatured by SDS</p>	4.0	1.00

		:  A2 : Polymeric proteins converted into monomeric units, but monomers are not denatured  A3 : SDS do not have any negative impact on native structure of monomers  A4 : Polymeric proteins are retained as single unit		
Objective Question				
16	16	Elemental carbon influences the regional climate because:  A1 : It influences the radiative flux in the atmosphere due to its absorbing properties  A2 : It reacts with other pollutants  A3 : It coagulates with other atmospheric pollutants  A4 : Its concentration is usually more in the atmosphere	4.0	1.00
Objective Question				
17	17	To determine the cation-exchange capacity, it is necessary to calculate the total positive charge associated with ions like:  A1 : $\text{Ca}^{2+}$ , $\text{Mg}^{2+}$ , $\text{K}^+$ , $\text{Na}^+$  A2 : $\text{Ca}^{2+}$ , $\text{Mn}^{2+}$ , $\text{Fe}^{3+}$ , $\text{Cr}^{3+}$  A3 : $\text{Mg}^{2+}$ , $\text{Fe}^{3+}$ , $\text{Ni}^{2+}$ , $\text{Cd}^{2+}$  A4 : $\text{K}^+$ , $\text{BO}^{2+}$ , $\text{Pb}^{2+}$ , $\text{Hg}^{2+}$	4.0	1.00
Objective Question				
18	18	Match the List I and List II. Identify the correct answer from the codes given below the lists  <div style="display: flex; justify-content: space-between;"> <div> List I (Organism) (a) Albugo and India mustard (b) Penicillium and Staphylococcus (c) Lichens (d) Barnacles and whales </div> <div> List II (Interaction) (i) Symbiosis (ii) Ammensalism (iii) Commensalism (iv) Parasitism </div> </div> A1 : (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)  A2 : (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)  A3 : (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)	4.0	1.00

		<p>A4 : (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)</p>		
Objective Question				
19	19	<p>The set of processes by which soil and rock are loosened and move downhill are called:</p> <p>A1 : Erosion</p> <p>A2 : Abrasion</p> <p>A3 : Saltation</p> <p>A4 : Weathering</p>	4.0	1.00
Objective Question				
20	20	<p>pH of 1 mM HCl is :</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 11</p>	4.0	1.00
Objective Question				
21	21	<p>Who proposed that succession is not orderly and directional but is heterogeneous?</p> <p>A1 : Clements</p> <p>A2 : Egler</p> <p>A3 : Tansley</p> <p>A4 : Reiter</p>	4.0	1.00
Objective Question				
22	22	<p>Cement dust is characterized by very fine particulates. Which of the following air pollution control devices is appropriate for removing them from hot exhaust gases emanating from cement kiln?</p> <p>A1 : Cyclones</p> <p>A2 : Baghouse</p>	4.0	1.00

		A3 : Electrostatic precipitator												
		A4 : Venturi scrubber												
Objective Question														
23	23	EIA of Port and Harbour projects involve impact assessment on: I. Biological environment II. Air environment III. Soil environment IV. Social environment Choose the correct answer:  A1 : I only  A2 : II only  A3 : III only  A4 : I, II and IV only	4.0	1.00										
Objective Question														
24	24	Match the List I and List II. Identify the correct answer from the codes given below the lists  <table><tr><td>List I (Tests)</td><td>List II (Application)</td></tr><tr><td>a) Z-test</td><td>(i) Judging the significance of differences between means of two small samples</td></tr><tr><td>b) t-test</td><td>(ii) Judging the significance of mean, median, mode</td></tr><tr><td>c) Chi-square test samples</td><td>(iii) Compare the variance of two-independent</td></tr><tr><td>d) F-test</td><td>(iv) Compare sample variance to a theoretical population variance</td></tr></table> A1 : (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)  A2 : (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)  A3 : (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)  A4 : (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)	List I (Tests)	List II (Application)	a) Z-test	(i) Judging the significance of differences between means of two small samples	b) t-test	(ii) Judging the significance of mean, median, mode	c) Chi-square test samples	(iii) Compare the variance of two-independent	d) F-test	(iv) Compare sample variance to a theoretical population variance	4.0	1.00
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Objective Question														
25	25	Landslide hazard in the Himalayan region are the consequence of: I. Road cutting II. Seismic activity III. Deforestation IV. Urbanization Choose the correct answer  A1 : I, II and III only	4.0	1.00										

		<p>A2 : I and III only</p> <p>A3 : I and II only</p> <p>A4 : I, II, III and IV</p>		
Objective Question				
26	26	<p>Which radiative element is considered as an indoor pollutant?</p> <p>A1 : Oxygen – 18</p> <p>A2 : Nitrogen – 15</p> <p>A3 : Carbon – 13</p> <p>A4 : Radon</p>	4.0	1.00
Objective Question				
27	27	<p>The rate of biogenetic nutrients between the abiotic and biotic components of an ecosystem is often referred to as:</p> <p>A1 : Turn over rate</p> <p>A2 : Production rate</p> <p>A3 : Standing state</p> <p>A4 : Cycling rate</p>	4.0	1.00
Objective Question				
28	28	<p>Which of the following is the <i>in-situ</i> biodiversity conservation site?</p> <p>A1 : Botanical garden</p> <p>A2 : Arboretum</p> <p>A3 : Biosphere reserve</p> <p>A4 : Orchidarium</p>	4.0	1.00
Objective Question				
29	29	<p>Which is the cleanest fuel for power generation?</p>	4.0	1.00



		<p>A1 Coal :</p> <p>A2 Uranium :</p> <p>A3 Hydrogen :</p> <p>A4 Water :</p>		
Objective Question				
30	30	<p>Blue baby syndrome is caused due to intake of water high in</p> <p>A1 Ammonia :</p> <p>A2 Nitrates :</p> <p>A3 Sulphates :</p> <p>A4 Sulphides :</p>	4.0	1.00
Objective Question				
31	31	<p>Which of the following ranges of scale lengths represents meso-scale motions in atmosphere?</p> <p>A1 30 km – 400 km :</p> <p>A2 500 m – 10 km :</p> <p>A3 1 km – 2 km :</p> <p>A4 100 m – 1 km :</p>	4.0	1.00
Objective Question				
32	32	<p>Beer-Lambert's law defines</p> <p>A1 The degree of absorption of monochromatic light by a homogeneous medium :</p> <p>A2 Atomic absorption spectrophotometry :</p> <p>A3 Atomic emission spectrophotometry :</p> <p>A4 Gas chromatography :</p>	4.0	1.00
Objective Question				

33	33	<p>Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).            Assertion (A): Shade loving species show better natural regeneration under highly disturbed condition.            Reason (R): Heliophilic species needs more exposure to light for better natural regeneration.            In the context of the two statements, which one of the following is correct?</p> <p>A1 : Both (A) and (R) are correct and (R) is the correct explanation of (A)</p> <p>A2 : Both (A) and (R) are correct and (R) is not the correct explanation of (A)</p> <p>A3 : (A) is true, but (R) is false</p> <p>A4 : (A) is false, but (R) is true</p>	4.0	1.00
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Objective Question

34	34	<p>Which one of the following enzymes work under strict anaerobic conditions to fix atmospheric nitrogen?</p> <p>A1 : Nitrate reductase</p> <p>A2 : Nitrite reductase</p> <p>A3 : Transaminase</p> <p>A4 : Nitrogenase</p>	4.0	1.00
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Objective Question

35	35	<p>Which of the following is/are produced during fermentation?</p> <p>I. Ethanol            II. Citrate            III. Lactate            IV. Succinate</p> <p>Choose the correct answer from the codes given below:</p> <p>A1 : I only</p> <p>A2 : I and II only</p> <p>A3 : I and III only</p> <p>A4 : II and IV only</p>	4.0	1.00
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Objective Question

36	36	<p>Indian Remote Sensing satellite (IRS 1C) contains</p> <p>A1 : One sensor</p> <p>A2 : Two sensors</p>	4.0	1.00
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		<p>A3 Three sensors :</p> <p>A4 Four sensors :</p>		
Objective Question				
37	37	<p>What is a band in remote sensing?</p> <p>A1 A range of electromagnetic radiation :</p> <p>A2 Infrared :</p> <p>A3 Visible light :</p> <p>A4 Optical filter :</p>	4.0	1.00
Objective Question				
38	38	<p>When soil becomes liquid at its melting point, the entropy</p> <p>A1 increases :</p> <p>A2 decreases :</p> <p>A3 zero :</p> <p>A4 remains unaltered :</p>	4.0	1.00
Objective Question				
39	39	<p>Earth summit of Rio de Janeiro (1992) resulted in</p> <p>A1 Compilation of Red list :</p> <p>A2 Establishment of Biosphere Reserve :</p> <p>A3 Conservation of Biodiversity :</p> <p>A4 IUCN :</p>	4.0	1.00
Objective Question				
40	40	<p>Eutrophic lakes are characterized by</p> <p>A1 High Nutrients and high productivity :</p>	4.0	1.00

		<p>A2 High Nutrients and low productivity :</p> <p>A3 Low Nutrients and high productivity :</p> <p>A4 Low Nutrients and low productivity :</p>		
Objective Question				
41	41	<p>What is the term for a collection of similar ecosystems?</p> <p>A1 ecosystem :</p> <p>A2 ecotone :</p> <p>A3 biome :</p> <p>A4 community :</p>	4.0	1.00
Objective Question				
42	42	<p>"Mammals of cold regions show tendency to have shorter extremities than in warmer regions" this statement is called as</p> <p>A1 Gloger rule :</p> <p>A2 Allen's rule :</p> <p>A3 Jordan rule :</p> <p>A4 Renche's rule :</p>	4.0	1.00
Objective Question				
43	43	<p>Which of the following statements best describes the work done by decomposers?</p> <p>A1 They prevent the escape of energy :</p> <p>A2 They provide nitrogen for plants by taking it from the soil or water :</p> <p>A3 They release carbon from decayed bodies in the form of carbon dioxide :</p> <p>A4 They create new source of oxygen :</p>	4.0	1.00
Objective Question				
44	44	<p>In India, Crocodile breeding project started for the first time in</p> <p>A1 Tamil Nadu</p>	4.0	1.00

		:  A2 West Bengal :  A3 Odisha :  A4 Goa :		
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Objective Question

45	45	H1N1 virus cause which of the following disease  A1 Bird flu :  A2 Swine flu :  A3 Dengue :  A4 AIDS :	4.0	1.00
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Objective Question

46	46	Cancer causing genes are called  A1 Operons :  A2 Oncogenes :  A3 Lethal genes :  A4 Lac operon :	4.0	1.00
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Objective Question

47	47	Which of the following triplet codon is a chain termination?  A1 UAG :  A2 UGU :  A3 UUG :  A4 GUU :	4.0	1.00
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Objective Question

48	48		4.0	1.00
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		<p>Fauna range from 200μ to 1mm size is called</p> <p>A1 : Microfauna</p> <p>A2 : Nanofauna</p> <p>A3 : Mesofauna</p> <p>A4 : Macrofauna</p>		
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Objective Question

49	49	<p>Which of the following frequency regions are part of sun's radiation?</p> <p>A1 : Visible frequency region</p> <p>A2 : Infrared frequency region</p> <p>A3 : Ultraviolet frequency region</p> <p>A4 : All of these</p>	4.0	1.00
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Objective Question

50	50	<p>Which one of the following helps to identify the objects on the earth surface?</p> <p>A1 : Atmospheric window</p> <p>A2 : Spectral signature</p> <p>A3 : Radiometric resolution</p> <p>A4 : Temporal resolution</p>	4.0	1.00
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Objective Question

51	51	<p>The smallest unit in a raster data is</p> <p>A1 : Pixel</p> <p>A2 : Band</p> <p>A3 : Node</p> <p>A4 : Segment</p>	4.0	1.00
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Objective Question				
52	52	<p>The range of normal human hearing is in the range of</p> <p>A1 : 10 Hz to 80 Hz</p> <p>A2 : 20Hz to 20000 Hz</p> <p>A3 : 50 Hz to 80 Hz</p> <p>A4 : 15000 Hz and above</p>	4.0	1.00
Objective Question				
53	53	<p>The pollution which does not cause persistent harm to life supporting system is</p> <p>A1 : Noise pollution</p> <p>A2 : Radiation pollution</p> <p>A3 : Organochlorine pollution</p> <p>A4 : Thermal pollution</p>	4.0	1.00
Objective Question				
54	54	<p>The main atmospheric layer near the surface of earth is</p> <p>A1 : ionosphere</p> <p>A2 : mesosphere</p> <p>A3 : troposphere</p> <p>A4 : stratospere</p>	4.0	1.00
Objective Question				
55	55	<p>All are particulate pollutants except</p> <p>A1 : dust</p> <p>A2 : ozone</p> <p>A3 : soot</p>	4.0	1.00

		A4 : smoke		
Objective Question				
56	56	<p>Chipko revolution is related to:</p> <p>A1 : Forest conservation</p> <p>A2 : Soil conservation</p> <p>A3 : Water conservation</p> <p>A4 : Animal conservation</p>	4.0	1.00
Objective Question				
57	57	<p>Metalimnion is:</p> <p>A1 : Lower part where water temperature is low</p> <p>A2 : Upper part subject to temperature fluctuation</p> <p>A3 : Middle transitional zone</p> <p>A4 : Aphotic region of deep lake</p>	4.0	1.00
Objective Question				
58	58	<p>The term biomagnifications refers to the:</p> <p>A1 : Increase in population size</p> <p>A2 : Growth of organisms due to food consumption</p> <p>A3 : Blowing up of environment issues by man</p> <p>A4 : Increase in the concentration of non-degradable pollutants as they pass through food chain</p>	4.0	1.00
Objective Question				
59	59	<p>Figs belong to:</p> <p>A1 : Critical link species, as they form connecting link between trees and herbs</p> <p>A2 : Critical link species, as they establish essential link in the absorbance of nutrients from soil and organic residues</p> <p>A3 : Keystone species, as they produce large quantity of fruits and their protection leads to conservation of animals</p>	4.0	1.00



		: dependent on them		
		A4 : Keystone species, as they have high degree of animal dependent pollination		
Objective Question				
60	60	Excess of water released through leaf tip is called  A1 : transpiration  A2 : osmosis  A3 : respiration  A4 : guttation	4.0	1.00
Objective Question				
61	61	Knocking effect in the gasoline cannot be reached by one of the following additives:  A1 : (C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> Pb  A2 : BTX  A3 : Kerosene  A4 : n-Butane	4.0	1.00
Objective Question				
62	62	Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A): Metallic contaminants are toxic to the microorganism. Reason (R): Heavy metal tends to precipitate in the form of phosphatic compounds and decrease soil fertility. In the context of the two statements, which one of the following is correct?  A1 : Both (A) and (R) are correct and (R) is the correct explanation of (A)  A2 : Both (A) and (R) are correct and (R) is not the correct explanation of (A)  A3 : (A) is true, but (R) is false  A4 : (A) is false, but (R) is true	4.0	1.00
Objective Question				
63	63	A point source of sound produces a noise of 70 dB at a distance of 20 m from it. What will be the noise level at 80 m from it?  A1 : 35 dB	4.0	1.00

		<p>A2 58 dB :</p> <p>A3 64 dB :</p> <p>A4 52 dB :</p>		
Objective Question				
64	64	<p>At initial time (<math>t_0</math>) number of E.coli per ml was 10. If generation time is 30 minutes, what would be number of cells per ml after a duration of 4 hours?</p> <p>A1 256 :</p> <p>A2 2560 :</p> <p>A3 240 :</p> <p>A4 300 :</p>	4.0	1.00
Objective Question				
65	65	<p>ISO 14040 is</p> <p>A1 Environmental Management - Life cycle assessment principle and framework :</p> <p>A2 Environmental Management – environmental assessment of sites and organization :</p> <p>A3 Guidelines for environmental audit – general principle :</p> <p>A4 Environmental Management – vocabulary :</p>	4.0	1.00
Objective Question				
66	66	<p>Ecosystem diversity can be best studied using the</p> <p>A1 Topographical maps :</p> <p>A2 Geoinformatics :</p> <p>A3 Geodesy :</p> <p>A4 Geology :</p>	4.0	1.00
Objective Question				
67	67		4.0	1.00

		<p>As per the color coding of plastic bags for biomedical wastes, match the List-I with List II and choose the correct answer from the codes given below</p> <table><tr><td><b>List I</b> (color code) (a) Yellow plastic bag (b) Black plastic bag (c) Blue/White plastic bag (d) Red plastic bag</td><td><b>List II</b> (Option for disposal) (i) Disposal in secured land fills (ii) Incineration and deep burials (iii) Autoclaving and chemical treatment (iv) Microwave treatments and destruction</td></tr></table> <p>A1 : (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)</p> <p>A2 : (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)</p> <p>A3 : (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)</p> <p>A4 : (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)</p>	<b>List I</b> (color code) (a) Yellow plastic bag (b) Black plastic bag (c) Blue/White plastic bag (d) Red plastic bag	<b>List II</b> (Option for disposal) (i) Disposal in secured land fills (ii) Incineration and deep burials (iii) Autoclaving and chemical treatment (iv) Microwave treatments and destruction		
<b>List I</b> (color code) (a) Yellow plastic bag (b) Black plastic bag (c) Blue/White plastic bag (d) Red plastic bag	<b>List II</b> (Option for disposal) (i) Disposal in secured land fills (ii) Incineration and deep burials (iii) Autoclaving and chemical treatment (iv) Microwave treatments and destruction					
Objective Question						
68	68	<p>Concept of intergenerational equity on natural resources refers to</p> <p>A1 : Legal obligations of present generation to future generations</p> <p>A2 : Moral obligation of the present generation to future generation</p> <p>A3 : Equitable responsibility of pollution generating industries</p> <p>A4 : Prudent use of resources inherited from previous generation.</p>	4.0	1.00		
Objective Question						
69	69	<p>Which one of the following protozoan is related to water borne disease?</p> <p>A1 : <i>Spumella sp.</i></p> <p>A2 : <i>Entamoeba histolytica</i></p> <p>A3 : <i>Paramoecium</i></p> <p>A4 : <i>Plasmodium vivax</i></p>	4.0	1.00		
Objective Question						
70	70	<p>Which of the following has the lowest Ozone depletion potential?</p> <p>A1 : HCFC – 22</p> <p>A2 : HCFC – 123</p>	4.0	1.00		

		<p>A3 : Halon – 1211</p> <p>A4 : CFC – 12</p>		
Objective Question				
71	71	<p>Disaster management Act in India came into existence in the year</p> <p>A1 : 2003</p> <p>A2 : 2005</p> <p>A3 : 1998</p> <p>A4 : 2006</p>	4.0	1.00
Objective Question				
72	72	<p>The standard hydrogen electrode, the pressure of hydrogen and hydrogen ion concentration respectively are:</p> <p>A1 : 1 atm : 10 m</p> <p>A2 : 10 atm : 1 m</p> <p>A3 : 1 atm : 1 m</p> <p>A4 : 1 atm : m/10</p>	4.0	1.00
Objective Question				
73	73	<p>Consider the following statements:            I. Entropy in a spontaneous reaction increases            II. Free energy in a spontaneous reaction increases            III. Free energy remains constant when reaction is in equilibrium            IV. Free energy increases in a reverse reaction            Which of these are correct:</p> <p>A1 : I and II only</p> <p>A2 : II and III only</p> <p>A3 : I and III only</p> <p>A4 : I II and IV only</p>	4.0	1.00
Objective Question				
74	74	Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).	4.0	1.00

		<p>Assertion (A): Increased level of Arsenic in water is a health hazard. Reason (R): Arsenic has antagonistic behavior with other metals, its dietary requirement is in trace amount and shows speciation. In the context of the two statements, which one of the following is correct?</p> <p>A1 : Both (A) and (R) are correct</p> <p>A2 : Both (A) and (R) are correct and (R) is not the correct explanation of (A)</p> <p>A3 : (A) is true, but (R) is false</p> <p>A4 : (A) is false, but (R) is true</p>		
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Objective Question

75	75	<p>When terrestrial plant communities progress with time from successional to climax stage: I. Standing crop biomass increases II. Net ecosystem productivity increases III. Gross productivity per unit of standing crop biomass decreases IV. Biomass supported per unit of energy flow decreases Which of these are correct:</p> <p>A1 : I and II only</p> <p>A2 : I and III only</p> <p>A3 : I and IV only</p> <p>A4 : I II and IV only</p>	4.0	1.00
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Objective Question

76	76	<p>Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A): Hot spots are the region showing richness of endemic species. Reason (R): The distribution of endemic species are confined to a specific region.. In the context of the two statements, which one of the following is correct?</p> <p>A1 : Both (A) and (R) are correct and (R) is correct explanation of (A).</p> <p>A2 : Both (A) and (R) are correct but (R) is not the correct explanation of (A)</p> <p>A3 : (A) is true, but (R) is false</p> <p>A4 : (A) is false, but (R) is true</p>	4.0	1.00
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Objective Question

77	77	<p>Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A): Decomposition of hydrocarbons is favored in neutral soil. Reason (R): Neutral pH favors the greatest populations of micro-organisms. In the context of the two statements, which one of the following is correct?</p> <p>A1 Both (A) and (R) are correct and (R) is correct explanation of (A)</p>	4.0	1.00
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		<p>:</p> <p>A2 Both (A) and (R) are correct but (R) is not the correct explanation of (A)</p> <p>:</p> <p>A3 (A) is true, but (R) is false</p> <p>:</p> <p>A4 (A) is false, but (R) is true</p> <p>:</p>		
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Objective Question

78	78	<p>Thiobacillus and Beggiatoa play an important role in the:</p> <p>A1 Water cycle on Earth</p> <p>:</p> <p>A2 Phosphorus cycle</p> <p>:</p> <p>A3 Sulfur cycle in the soil</p> <p>:</p> <p>A4 Breakdown of sewage</p> <p>:</p>	4.0	1.00
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Objective Question

79	79	<p>In a simple regression consisting of dependent variable Y, independent variable X and random error term <math>\epsilon</math>, <math>Y = \alpha + \beta X + \epsilon</math>, the expectation value <math>E(\epsilon)</math> is :</p> <p>A1 0</p> <p>:</p> <p>A2 <math>\alpha/\beta</math></p> <p>:</p> <p>A3 <math>\beta/\alpha</math></p> <p>:</p> <p>A4 <math>(\beta - \alpha)</math></p> <p>:</p>	4.0	1.00
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Objective Question

80	80	<p>The geometric mean of the data 2, 4, 27 is:</p> <p>A1 6</p> <p>:</p> <p>A2 <math>6\sqrt{6}</math></p> <p>:</p> <p>A3 16.5</p> <p>:</p> <p>A4 <math>\sqrt{33}</math></p> <p>:</p>	4.0	1.00
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Objective Question

81	81	<p>Bulking of sewage sludge is frequently associated with:</p> <p>A1 : High C : N ratio</p> <p>A2 : High C : P ratio</p> <p>A3 : High dissolved oxygen</p> <p>A4 : High C: K ratio</p>	4.0	1.00
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Objective Question

82	82	<p>About half of the earth's photosynthesis is carried out by</p> <p>A1 : Cyanobacteria</p> <p>A2 : Rainforest flora</p> <p>A3 : Protists</p> <p>A4 : Marine phytoplankton</p>	4.0	1.00
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Objective Question

83	83	<p>Deep sea ferromanganese nodules are found on:</p> <p>A1 : Oceanic plateau</p> <p>A2 : Oceanic ridges</p> <p>A3 : Oceanic islands</p> <p>A4 : Oceanic plains</p>	4.0	1.00
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Objective Question

84	84	<p>For aerosol particles of size comparable to wavelength of either shortwave radiation or infra-red radiation, the following type of scattering takes place:</p> <p>A1 : Rayleigh scattering</p> <p>A2 : Mie scattering</p> <p>A3 : Raman scattering</p> <p>A4 : Brillouin scattering</p>	4.0	1.00
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Objective Question				
85	85	<p>Biogas production is the outcome of</p> <p>A1 : Methanogenesis</p> <p>A2 : Pyrolysis</p> <p>A3 : Methanogenesis and Gasification</p> <p>A4 : Gasification</p>	4.0	1.00
Objective Question				
86	86	<p>Ramsar Convention is associated with</p> <p>A1 : Forest conservation</p> <p>A2 : Soil conservation</p> <p>A3 : Wetland conservation</p> <p>A4 : Wildlife conservation</p>	4.0	1.00
Objective Question				
87	87	<p>The term oligotrophic refers to</p> <p>A1 : Higher nutrients in water</p> <p>A2 : High aquatic productivity</p> <p>A3 : Low nutrients and low productivity</p> <p>A4 : Algal bloom</p>	4.0	1.00
Objective Question				
88	88	<p>In symmetrical distribution pattern</p> <p>A1 : Median, Mean and Mode coincide</p> <p>A2 : Mean and Median coincide</p> <p>A3 : Mean and Mode coincide</p>	4.0	1.00



		A4 : Mode and Median coincide		
Objective Question				
89	89	Black foot disease is caused by  A1 : excess of fluoride in water  A2 : deficiency of iodine in water  A3 : excess of arsenic in water  A4 : excess of iodine in water	4.0	1.00
Objective Question				
90	90	The size distribution of particles in soil and sediments generally follow  A1 : binomial distribution  A2 : normal distribution  A3 : linear distribution  A4 : log-normal distribution	4.0	1.00
Objective Question				
91	91	Garnet is a metamorphic product of  A1 : Feldspar  A2 : Quartzite  A3 : Mica  A4 : Serpentine	4.0	1.00
Objective Question				
92	92	The aggregation of all eco systems on the earth is referred to as  A1 : Atmosphere  A2 : Ecosphere	4.0	1.00

		A3 Stratosphere :		
		A4 Ionosphere :		
Objective Question				
93	93	Geostationary satellites orbit above the earth at about  A1 10 km from the earth surface :  A2 500 km from the earth surface :  A3 1500 km above the earth surface :  A4 5 km from the earth surface :	4.0	1.00
Objective Question				
94	94	One of the following in biogeochemical cycle has <i>not</i> involved biological fixation:  A1 Oxygen :  A2 Carbon :  A3 Nitrogen :  A4 Phosphorus :	4.0	1.00
Objective Question				
95	95	Which of the following is the concentration of CO <sub>2</sub> in the atmosphere (water vapour free)?  A1 0.32% :  A2 0.032% :  A3 0.38% :  A4 0.038% :	4.0	1.00
Objective Question				
96	96	Diesel oil is a fraction obtained between  A1 40-120° C :  A2 180-250° C	4.0	1.00

		<p>:</p> <p>A3 : 250-320° C</p> <p>A4 : 280-360° C</p>		
Objective Question				
97	97	<p>If the size of the sample is very small, then suitable sampling method for better result is obtained by</p> <p>A1 : Random sampling</p> <p>A2 : Stratified sampling</p> <p>A3 : Census sampling</p> <p>A4 : Purposive sampling</p>	4.0	1.00
Objective Question				
98	98	<p>Across the boundaries of a closed thermodynamical system</p> <p>A1 : matter flows but the energy doesn't</p> <p>A2 : energy flows but the matter doesn't</p> <p>A3 : both energy and matter flow</p> <p>A4 : both energy and matter do not flow</p>	4.0	1.00
Objective Question				
99	99	<p>The largest soil group in India is of</p> <p>A1 : Red soil</p> <p>A2 : Black soil</p> <p>A3 : Sandy soil</p> <p>A4 : Mountain soil</p>	4.0	1.00
Objective Question				
100	100		4.0	1.00

Match the List-I with List II and choose the correct answer from the codes given below

List I  
(Analytical techniques)  
(a) XRF  
(b) Nephelometry  
(c) IR spectroscopy  
(d) Gas chromatography

List II  
(Measured items)  
(i) Functional groups  
(ii) Elements  
(iii) Turbidity  
(iv) PAH

A1  
: (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)

A2  
: (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

A3  
: (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)

A4  
: (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)