

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

		<p>A2 : Tropical waters</p> <p>A3 : Antarctic waters</p> <p>A4 : Arctic waters</p>		
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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
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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
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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
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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
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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
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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
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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</p> <p>Choose the correct answer</p> <p>A1 : I, III and IV only</p> <p>A2 : II and III only</p>	4.0	1.00
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		A3 : I, II and IV only		
		A4 : I, II, III and IV		

Objective Question

12	12	When DDT enters the human body, it is: A1 : water soluble and easily excreted in urine A2 : processed by enzymes and becomes a different compound which is toxic A3 : stored in the bones A4 : fat soluble and stored in fat tissues	4.0	1.00
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Objective Question

13	13	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: 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
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Objective Question

14	14	In an ecological succession there is a progressive change in biological community over time and space A1 : Old species are replaced by new one A2 : Old species evolved into new species A3 : New species moves in displacing previous one A4 : Each stage there is a modification in the environment to adopt new species	4.0	1.00
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Objective Question

15	15	In ADS – PAGE: A1 Polymeric proteins are not only converted into monomers, but monomers are also denatured by SDS	4.0	1.00
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		: 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		
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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
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Objective Question

17	17	To determine the cation-exchange capacity, it is necessary to calculate the total positive charge associated with ions like: A1 : Ca^{2+} , Mg^{2+} , K^+ , Na^+ A2 : Ca^{2+} , Mn^{2+} , Fe^{3+} , Cr^{3+} A3 : Mg^{2+} , Fe^{3+} , Ni^{2+} , Cd^{2+} A4 : K^+ , BO^{2+} , Pb^{2+} , Hg^{2+}	4.0	1.00
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Objective Question

18	18	Match the List I and List II. Identify the correct answer from the codes given below the lists <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> List I (Organism) (a) Albugo and India mustard (b) Penicillium and Staphylococcus (c) Lichens (d) Barnacles and whales </td> <td style="width: 50%; vertical-align: top;"> List II (Interaction) (i) Symbiosis (ii) Ammensalism (iii) Commensalism (iv) Parasitism </td> </tr> </table> 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)	List I (Organism) (a) Albugo and India mustard (b) Penicillium and Staphylococcus (c) Lichens (d) Barnacles and whales	List II (Interaction) (i) Symbiosis (ii) Ammensalism (iii) Commensalism (iv) Parasitism	4.0	1.00
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A4 (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
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Objective Question

19	19	The set of processes by which soil and rock are loosened and move downhill are called: A1 Erosion : A2 Abrasion : A3 Saltation : A4 Weathering :	4.0	1.00
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Objective Question

20	20	pH of 1 mM HCl is : A1 1 : A2 2 : A3 3 : A4 11 :	4.0	1.00
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Objective Question

21	21	Who proposed that succession is not orderly and directional but is heterogeneous? A1 Clements : A2 Egler : A3 Tansley : A4 Reiter :	4.0	1.00
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Objective Question

22	22	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? A1 Cyclones : A2 Baghouse :	4.0	1.00
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		<p>A3 Electrostatic precipitator :</p> <p>A4 Venturi scrubber :</p>		
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Objective Question

23	23	<p>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:</p> <p>A1 I only :</p> <p>A2 II only :</p> <p>A3 III only :</p> <p>A4 I, II and IV only :</p>	4.0	1.00
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Objective Question

24	24	<p>Match the List I and List II. Identify the correct answer from the codes given below the lists</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>List I (Tests)</p> <p>a) Z-test</p> <p>b) t-test</p> <p>c) Chi-square test samples</p> <p>d) F-test</p> </td> <td style="width: 50%; vertical-align: top;"> <p>List II (Application)</p> <p>(i) Judging the significance of differences between means of two small samples</p> <p>(ii) Judging the significance of mean, median, mode</p> <p>(iii) Compare the variance of two-independent</p> <p>(iv) Compare sample variance to a theoretical population variance</p> </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>	<p>List I (Tests)</p> <p>a) Z-test</p> <p>b) t-test</p> <p>c) Chi-square test samples</p> <p>d) F-test</p>	<p>List II (Application)</p> <p>(i) Judging the significance of differences between means of two small samples</p> <p>(ii) Judging the significance of mean, median, mode</p> <p>(iii) Compare the variance of two-independent</p> <p>(iv) Compare sample variance to a theoretical population variance</p>	4.0	1.00
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Objective Question

25	25	<p>Landslide hazard in the Himalayan region are the consequence of: I. Road cutting II. Seismic activity III. Deforestation IV. Urbanization Choose the correct answer</p> <p>A1 I, II and III only :</p>	4.0	1.00
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		<p>A2 : I and III only</p> <p>A3 : I and II only</p> <p>A4 : I, II, III and IV</p>		
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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
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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
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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
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Objective Question

29	29	<p>Which is the cleanest fuel for power generation?</p>	4.0	1.00
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		<p>A1 Coal :</p> <p>A2 Uranium :</p> <p>A3 Hydrogen :</p> <p>A4 Water :</p>		
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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
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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
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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
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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

		A2 High Nutrients and low productivity :		
		A3 Low Nutrients and high productivity :		
		A4 Low Nutrients and low productivity :		

Objective Question

41	41	What is the term for a collection of similar ecosystems? A1 ecosystem : A2 ecotone : A3 biome : A4 community :	4.0	1.00
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Objective Question

42	42	"Mammals of cold regions show tendency to have shorter extremities than in warmer regions" this statement is called as A1 Gloger rule : A2 Allen's rule : A3 Jordan rule : A4 Renche's rule :	4.0	1.00
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Objective Question

43	43	Which of the following statements best describes the work done by decomposers? A1 They prevent the escape of energy : A2 They provide nitrogen for plants by taking it from the soil or water : A3 They release carbon from decayed bodies in the form of carbon dioxide : A4 They create new source of oxygen :	4.0	1.00
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Objective Question

44	44	In India, Crocodile breeding project started for the first time in A1 Tamil Nadu	4.0	1.00
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		: 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	Chipko revolution is related to: A1 : Forest conservation A2 : Soil conservation A3 : Water conservation A4 : Animal conservation	4.0	1.00
Objective Question				
57	57	Metalimnion is: A1 : Lower part where water temperature is low A2 : Upper part subject to temperature fluctuation A3 : Middle transitional zone A4 : Aphotic region of deep lake	4.0	1.00
Objective Question				
58	58	The term biomagnifications refers to the: A1 : Increase in population size A2 : Growth of organisms due to food consumption A3 : Blowing up of environment issues by man A4 : Increase in the concentration of non-degradable pollutants as they pass through food chain	4.0	1.00
Objective Question				
59	59	Figs belong to: A1 : Critical link species, as they form connecting link between trees and herbs A2 : Critical link species, as they establish essential link in the absorbance of nutrients from soil and organic residues A3 : Keystone species, as they produce large quantity of fruits and their protection leads to conservation of animals	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	4.0	1.00
		A1 : transpiration		
		A2 : osmosis		
		A3 : respiration		
		A4 : guttation		

Objective Question

61	61	Knocking effect in the gasoline cannot be reached by one of the following additives:	4.0	1.00
		A1 : $(C_2H_5)_4Pb$		
		A2 : BTX		
		A3 : Kerosene		
		A4 : n-Butane		

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?	4.0	1.00
		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		

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?	4.0	1.00
		A1 : 35 dB		

		<p>A2 58 dB :</p> <p>A3 64 dB :</p> <p>A4 52 dB :</p>		
Objective Question				
64	64	<p>At initial time (t_0) 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

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>List I
(color code)</p> <p>(a) Yellow plastic bag
(b) Black plastic bag
(c) Blue/White plastic bag
(d) Red plastic bag</p> | <p>List II
(Option for disposal)</p> <p>(i) Disposal in secured land fills
(ii) Incineration and deep burials
(iii) Autoclaving and chemical treatment
(iv) Microwave treatments and destruction</p> |
|---|--|

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)

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
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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
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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
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		<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	<p>Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).</p>	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 ϵ, $Y = \alpha + \beta X + \epsilon$, the expectation value $\langle \epsilon \rangle$ is :</p> <p>A1 .0</p> <p>:</p> <p>A2 α/β</p> <p>:</p> <p>A3 β/α</p> <p>:</p> <p>A4 $(\beta - \alpha)$</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 $6\sqrt{6}$</p> <p>:</p> <p>A3 16.5</p> <p>:</p> <p>A4 $\sqrt{33}$</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	4.0	1.00
		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 :		

Objective Question

94	94	One of the following in biogeochemical cycle has <i>not</i> involved biological fixation:	4.0	1.00
		A1 Oxygen :		
		A2 Carbon :		
		A3 Nitrogen :		
		A4 Phosphorus :		

Objective Question

95	95	Which of the following is the concentration of CO ₂ in the atmosphere (water vapour free)?	4.0	1.00
		A1 0.32% :		
		A2 0.032% :		
		A3 0.38% :		
		A4 0.038% :		

Objective Question

96	96	Diesel oil is a fraction obtained between	4.0	1.00
		A1 40-120° C :		
		A2 180-250° C :		

		: A3 : 250-320° C A4 : 280-360° C		
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Objective Question

97	97	If the size of the sample is very small, then suitable sampling method for better result is obtained by A1 : Random sampling A2 : Stratified sampling A3 : Census sampling A4 : Purposive sampling	4.0	1.00
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Objective Question

98	98	Across the boundaries of a closed thermodynamical system A1 : matter flows but the energy doesn't A2 : energy flows but the matter doesn't A3 : both energy and matter flow A4 : both energy and matter do not flow	4.0	1.00
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Objective Question

99	99	The largest soil group in India is of A1 : Red soil A2 : Black soil A3 : Sandy soil A4 : Mountain soil	4.0	1.00
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Objective Question

100	100		4.0	1.00
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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)