DU MSc Environmental Studies

Topic:- DU_J18_MSC_ES

1) The most important constituent of water hardness is

[Question ID = 2576]

- 1. Nitrogen [Option ID = 10307]
- 2. Iron [Option ID = 10303]
- 3. Phosphorus [Option ID = 10301]
- 4. Calcium [Option ID = 10305]

Correct Answer :-

• Calcium [Option ID = 10305]

2) World's first national park was established in 1872 largely in response to the efforts of naturalist and writer John Muir who was a strong believer of: [Question ID = 2603]

- 1. Utilitarian conservationist approach [Option ID = 10409]
- 2. Biocentric preservationist approach [Option ID = 10410]
- 3. Anthropocentric approach [Option ID = 10411]
- 4. Cultural approach [Option ID = 10412]

Correct Answer :-

Biocentric preservationist approach [Option ID = 10410]

3) Reverse sexual size dimorphism is often seen in: [Question ID = 2592]

- 1. Sarus Crane [Option ID = 10365]
- 2. Raptors [Option ID = 10367]
- 3. Indian Peafowl [Option ID = 10366]
- 4. Dabbling ducks [Option ID = 10368]

Correct Answer :-

• Raptors [Option ID = 10367]

4) Microbiome refers to: [Question ID = 2600]

- 1. Genetic material of the entire collection of microorganisms in a specific niche [Option ID = 10397]
- 2. Genetic material of all the members of a genus [Option ID = 10399]
- 3. Genetic material of all the members of a family [Option ID = 10400]
- 4. Genetic material of all the members of a population [Option ID = 10398]

Correct Answer :-

• Genetic material of the entire collection of microorganisms in a specific niche [Option ID = 10397]

5) Which of the following biomes is least suitable for agriculture? [Question ID = 2615]

- 1. Boreal forest [Option ID = 10457]
- 2. Grassland [Option ID = 10460]
- 3. Savanna [Option ID = 10458]
- 4. Deciduous forest [Option ID = 10459]

Correct Answer :-

Boreal forest [Option ID = 10457]

6) Birds and mammals in the colder regions have larger body size compared to their con-specifics of the warmer regions. This phenomenon is also known as: [Question ID = 2591]

- 1. Jordan's Rule [Option ID = 10364]
- 2. Gloger's Rule [Option ID = 10363]
- 3. Allen's Rule [Option ID = 10361]
- 4. Bergman's Rule [Option ID = 10362]



Correct Answer :- • Bergman's Rule [Option ID = 10362]
 Lotka-Volterra model is associated with: [Question ID = 2620] All of these [Option ID = 10480] Plant-herbivore interaction [Option ID = 10477] Herbivore-carnivore interactions [Option ID = 10479] Host-parasite interaction [Option ID = 10478]
Correct Answer :- • All of these [Option ID = 10480]
 niche of an organism is usually than its niche: [Question ID = 2612] Fundamental, Broader, Realized [Option ID = 10446] Fundamental, Narrower, Realized [Option ID = 10448] Realized, Narrower, Fundamental [Option ID = 10447] Realized, Broader, Fundamental [Option ID = 10445]
 Correct Answer:- Fundamental, Broader, Realized [Option ID = 10446] Realized, Narrower, Fundamental [Option ID = 10447]
 9) Living organisms change the chemical species of an inorganic element by a process called: [Question ID = 2602] 1. Biodegradation [Option ID = 10406] 2. Ecological transfer [Option ID = 10408] 3. Biotransformation [Option ID = 10407] 4. Trophic transfer [Option ID = 10405]
Correct Answer :- • Biotransformation [Option ID = 10407]
 When a detective interprets general habits of a stranger on the basis of isolated observations, he is exercising: [Question ID = 2601] Both Deductive reasoning and Inductive reasoning [Option ID = 10403] Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] Deductive reasoning [Option ID = 10401] Inductive reasoning [Option ID = 10402]
 Both Deductive reasoning and Inductive reasoning [Option ID = 10403] Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] Deductive reasoning [Option ID = 10401]
 Both Deductive reasoning and Inductive reasoning [Option ID = 10403] Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] Deductive reasoning [Option ID = 10401] Inductive reasoning [Option ID = 10402] Correct Answer:-
 Both Deductive reasoning and Inductive reasoning [Option ID = 10403] Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] Deductive reasoning [Option ID = 10401] Inductive reasoning [Option ID = 10402] Correct Answer: Inductive reasoning [Option ID = 10402] 11) The open surface water in a lake away from the shore is known as: [Question ID = 2581] Benthic zone [Option ID = 10321] Limnetic zone [Option ID = 10324] Profundal zone [Option ID = 10322]
 Both Deductive reasoning and Inductive reasoning [Option ID = 10403] Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] Deductive reasoning [Option ID = 10401] Inductive reasoning [Option ID = 10402] Correct Answer:- Inductive reasoning [Option ID = 10402] 11) The open surface water in a lake away from the shore is known as: [Question ID = 2581] Benthic zone [Option ID = 10321] Limnetic zone [Option ID = 10324] Profundal zone [Option ID = 10322] Littoral zone [Option ID = 10323] Correct Answer:-
1. Both Deductive reasoning and Inductive reasoning [Option ID = 10403] 2. Neither Deductive reasoning nor Inductive reasoning [Option ID = 10404] 3. Deductive reasoning [Option ID = 10401] 4. Inductive reasoning [Option ID = 10402] Correct Answer: • Inductive reasoning [Option ID = 10402] 11) The open surface water in a lake away from the shore is known as: [Question ID = 2581] 1. Benthic zone [Option ID = 10321] 2. Limnetic zone [Option ID = 10324] 3. Profundal zone [Option ID = 10322] 4. Littoral zone [Option ID = 10323] Correct Answer: • Limnetic zone [Option ID = 10324] 12) In a human population of 20000, if there are 400 births per year and 200 deaths per year. What is the growth rate of the population? [Question ID = 2619] 1. 10 % [Option ID = 10474] 2. 2% [Option ID = 10475] 3. 20 % [Option ID = 10476]

2. Coal Power plant [Option ID = 10315]



- 3. Thermal power plant [Option ID = 10313]
- 4. Nuclear Power Plant [Option ID = 10316]

Correct Answer :-

• Nuclear Power Plant [Option ID = 10316]

14) Human-driven changes to vegetation include: [Question ID = 2583]

- 1. All of these [Option ID = 10332]
- 2. Extinction [Option ID = 10330]
- 3. Range size change [Option ID = 10331]
- 4. Exotic species invasion [Option ID = 10329]

Correct Answer :-

• All of these [Option ID = 10332]

15) The largest mangrove habitats in India are in: [Question ID = 2598]

- 1. Andaman islands [Option ID = 10390]
- 2. Sunderbans [Option ID = 10389]
- 3. Gulf of Kutch [Option ID = 10392]
- 4. Gulf of Mannar [Option ID = 10391]

Correct Answer :-

• Sunderbans [Option ID = 10389]

16) Phytostimulation is widely used for degradation of hydrocarbons in the soil. The principle of this technology is:

[Question ID = 2616]

- 1. Stimulation of enzymes in leaves of plants which can degrade the contaminants [Option ID = 10461]
- 2. Stimulation of hydrocarbon degrading microbes in soil by plant root exudates [Option ID = 10462]
- 3. Stimulation of chemical reactions by plants which result in hydrocarbon degradation [Option ID = 10463]
- 4. Stimulation of growth of plant which accumulates hydrocarbons inside the leaves [Option ID = 10464]

Correct Answer :-

Stimulation of hydrocarbon degrading microbes in soil by plant root exudates [Option ID = 10462]

17) Thermal power plant is considered as a: [Question ID = 2582]

- Both Diffuse source of pollutants and Point source of pollutants [Option ID = 10327]
- 2. None of these [Option ID = 10328]
- 3. Point source of pollutants [Option ID = 10326]
- Diffuse source of pollutants [Option ID = 10325]

Correct Answer :-

Point source of pollutants [Option ID = 10326]

18) As per Carl Woese, the three domains of life are: [Question ID = 2608]

- Crenarchaeota, Euryarchaeota, Bacteria [Option ID = 10431]
- 2. Extremophiles, Metallophiles, Thermophiles [Option ID = 10432]
- 3. Eukarya, Bacteria, Archaea [Option ID = 10429]
- 4. Animal, Fungi, Bacteria [Option ID = 10430]

Correct Answer :-

Eukarya, Bacteria, Archaea [Option ID = 10429]

19) As per 2006 notification of Gazette of India, Environmental Impact Assessment report of a proposed river valley project after environmental clearance is applicable for a maximum period of: [Question ID = 2596]

- 1. 10 years [Option ID = 10382]
- 2. 30 years [Option ID = 10383]
- 3. 5 years [Option ID = 10381]
- 4. 2 years [Option ID = 10384]

Correct Answer :-

10 years [Option ID = 10382]



 Inorganic compounds [Option ID = 10440]
2. Sun [Option ID = 10437]
 Ocean wave energy [Option ID = 10439] Organic matter that settles at sea floor [Option ID = 10438]
Correct Answer :-
Inorganic compounds [Option ID = 10440]
21) Identify the place of origin of river Narmada: [Question ID = 2578]
 Naramdapur [Option ID = 10312] Devpura [Option ID = 10311]
3. Narendra Nagar [Option ID = 10309]
4. Amarkantak [Option ID = 10310]
Correct Answer :-
Amarkantak [Option ID = 10310]
22) Identify the incorrect match: [Question ID = 2614]
 National Bureau of Soil Survey and Land Use Planning – Nagpur [Option ID = 10455] National Bureau of Plant Genetic Resources (NBPGR) – New Delhi [Option ID = 10454]
National Bureau of Animal Genetic Resources – Mumbai [Option ID = 10453]
4. National Bureau of Fish Genetic Resources – Lucknow [Option ID = 10456]
Correct Answer :-
 National Bureau of Animal Genetic Resources – Mumbai [Option ID = 10453]
23) The particle size associated with ambient aerosols in the atmosphere is in the range of: [Question ID = 2590]
1. 100 – 150 μm [Option ID = 10359]
2. > 200 μm [Option ID = 10360]
3. $1 - 5 \mu m$ [Option ID = 10357]
4. $50 - 100 \mu m$ [Option ID = 10358]
Correct Answer :-
• 1 – 5 μm [Option ID = 10357]
• 1 – 5 μm [Option ID = 10357]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively.
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer:-
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer:-
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: High, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: High, small, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) Option ID = 10396]
 1 – 5 μm [Option ID = 10357] 24) In **-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: * High, small, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) and (iii) [Option ID = 10396] 3. (iv) [Option ID = 10395]
 1 – 5 μm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: High, small, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) Option ID = 10396]
• 1 – 5 µm [Option ID = 10357] 24) In **selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: - High, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) and (iii) [Option ID = 10395] 4. (i), and (iii) [Option ID = 10393] Correct Answer:-
• 1 – 5 µm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: • High, small, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) and (iii) [Option ID = 10396] 3. (iv) [Option ID = 10395] 4. (i), and (iii) [Option ID = 10393]
• 1 – 5 µm [Option ID = 10357] 24) In **selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: - High, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) and (iii) [Option ID = 10395] 4. (i), and (iii) [Option ID = 10393] Correct Answer:-
• 1 – 5 µm [Option ID = 10357] 24) In r-selected species, seed number, seed size, size of individuals and lifespan are,, and, respectively. [Question ID = 2644] 1. High, large, large, short [Option ID = 10576] 2. High, small, small, short [Option ID = 10573] 3. Low, large, large, long [Option ID = 10574] 4. High, large, large, long [Option ID = 10575] Correct Answer: • High, small, small, short [Option ID = 10573] 25) Several factors affect population growth, such as (i) predation, (ii) disease, (iii) competition, and (iv) hurricane and fire. Identify the density-independent factors from the following options: [Question ID = 2599] 1. (ii) [Option ID = 10394] 2. (ii) and (iii) [Option ID = 10395] 3. (iv) [Option ID = 10395] 4. (i), and (iii) [Option ID = 10395] Correct Answer: • (iv) [Option ID = 10395]



4. Life history events in plants [Option ID = 11307]

Correct Answer :-

Life history events in plants [Option ID = 11307]

27) Climate change and warming can have these consequences: [Question ID = 2575]

- 1. Range expansion of diseases to new areas [Option ID = 10296]
- 2. All of these [Option ID = 10300]
- 3. Farmers distress [Option ID = 10298]
- Loss of horticulture productivity [Option ID = 10294]

Correct Answer :-

All of these [Option ID = 10300]

28) Which one of the following field of studies would be the most appropriate to study the broad scale environmental issues involving land management problems? [Question ID = 2609]

- 1. Community ecology [Option ID = 10435]
- Invasion ecology [Option ID = 10433]
- Landscape ecology [Option ID = 10434]
- 4. Population ecology [Option ID = 10436]

Correct Answer :-

Landscape ecology [Option ID = 10434]

29) Which one of the following facilitates biodiversity in nutrient-poor soils? [Question ID = 2586]

- 1. Competition [Option ID = 10342]
- 2. Parasitism [Option ID = 10343]
- 3. Resource partitioning [Option ID = 10341]
- 4. Bioaccumulation [Option ID = 10344]

Correct Answer :-

• Resource partitioning [Option ID = 10341]

30) Which one of the following species of mercury accumulates easily in the living cells and is considered highly toxic? [Question ID = 2593]

- 1. Mercurous ion [Option ID = 10369]
- 2. Organomercurials [Option ID = 10371]
- 3. Mercuric ion [Option ID = 10370]
- 4. Atomic mercury [Option ID = 10372]

Correct Answer :-

Organomercurials [Option ID = 10371]

31) Which of the following may not be an effect of climate change? [Question ID = 2618]

- 1. Range expansion of tropical diseases [Option ID = 10469]
- 2. None of these [Option ID = 10472]
- 3. Extreme weather events [Option ID = 10470]
- 4. Immense wildfires [Option ID = 10471]

Correct Answer :-

• None of these [Option ID = 10472]

32) Which of the following is correct about attributes in Geographic Information System (GIS)? [Question ID = 2595]

- 1. Can be analyzed to determine patterns of importance [Option ID = 10378]
- 2. Are entered directly into a database where it is associated with element data. [Option ID = 10379]
- 3. All of these [Option ID = 10380]
- 4. Pieces of data connected or related to the points, lines or polygons mapped in the GIS [Option ID = 10377]

Correct Answer :-

• All of these [Option ID = 10380]

33) Which of the following most realistically represents the flow of energy and material through an ecosystem? [Question ID = 2605]

1. Food web [Option ID = 10418]



- 2. Pyramid of biomass [Option ID = 10419]
- 3. Food chain [Option ID = 10417]
- 4. Pyramid of numbers [Option ID = 10420]

Correct Answer :-

Food web [Option ID = 10418]

34) Redox potential in the soil is not regulated by: [Question ID = 2589]

- 1. Strong oxidizing agent [Option ID = 10355]
- 2. Soil particle size [Option ID = 10353]
- 3. Soil organic carbon [Option ID = 10354]
- 4. Weak oxidizing agent [Option ID = 10356]

Correct Answer :-

• Soil particle size [Option ID = 10353]

35) Groundwater mining in coastal areas can lead to: [Question ID = 2588]

- Decreased salinity of groundwater [Option ID = 10351]
- 2. Increased water table [Option ID = 10350]
- 3. Increased salinity of groundwater [Option ID = 10352]
- 4. Reduced pollutant concentration in groundwater [Option ID = 10349]

Correct Answer :-

• Increased salinity of groundwater [Option ID = 10352]

36) Increased concentration of a chemical at a higher trophic level is known as: [Question ID = 2621]

- 1. Biopersistence [Option ID = 10481]
- 2. Biomagnification [Option ID = 10483]
- 3. Bioaccumulation [Option ID = 10482]
- 4. Biomining [Option ID = 10484]

Correct Answer :-

Biomagnification [Option ID = 10483]

37) Atmosphere on the Earth is maintained by: [Question ID = 2624]

- 1. All of these [Option ID = 10496]
- 2. Earth's rotation [Option ID = 10494]
- 3. Ozone [Option ID = 10493]
- 4. Earth's magnetic field [Option ID = 10495]

Correct Answer :-

38) Bioprospecting deals with the:

[Question ID = 2607]

- 1. Use of multiple ecological ideas for demarcation of protected areas [Option ID = 10427]
- Use of multidisciplinary tools for a systematic search for genes, natural compounds, designs, and whole organisms for product development [Option ID = 10425]
- 3. Use of multiple tools for development of new crop varieties [Option ID = 10428]
- 4. Use of multi-disciplinary tools for conservation of ecosystems [Option ID = 10426]

Correct Answer :-

Use of multidisciplinary tools for a systematic search for genes, natural compounds, designs, and whole organisms for product development [Option ID = 10425]

39) To prepare 1000 ml of a 10 ppm solution of NaOH, how much NaOH should be dissolved in water (NaOH Mol Wt. =40): [Question ID = 2585]

- 1. 4000 mg [Option ID = 10340]
- 2. 1000 mg [Option ID = 10339]
- 3. 40 mg [Option ID = 10338]
- 4. 10 mg [Option ID = 10337]

Correct Answer :-

• 10 mg [Option ID = 10337]



40) Which of the following processes affect the availability of organic content in soil: [Question ID = 2584]

- 1. Metal speciation [Option ID = 10335]
- 2. Sorption [Option ID = 10334]
- 3. All of these [Option ID = 10336]
- 4. Soil microbial activity [Option ID = 10333]

Correct Answer :-

All of these [Option ID = 10336]

41) Which of the four Indian states decided to conduct a synchronized elephant census in May 2017? [Question ID = 2622]

- West Bengal, Odisha, Chhattisgarh, Jharkhand [Option ID = 10487]
- Odisha, Bihar, Jharkhand, Chhattisgarh [Option ID = 10488]
- West Bengal, Odisha, MP, Chhattisgarh [Option ID = 10486]
- West Bengal, Jharkhand, Bihar, Odisha [Option ID = 10485]

Correct Answer :-

West Bengal, Odisha, Chhattisgarh, Jharkhand [Option ID = 10487]

42) Symbiosis is an intimate long-term relationship between two unlike organisms, where: [Question ID = 2613]

- 1. All of these [Option ID = 10452]
- 2. Both partners benefits [Option ID = 10449]
- 3. One partner benefits but other one is neither harmed nor helped [Option ID = 10450]
- 4. One partner benefits but the other one is harmed [Option ID = 10451]

Correct Answer :-

• All of these [Option ID = 10452]

43) Dobson unit is a measure of: [Question ID = 2606]

- 1. CO₂ concentration [Option ID = 10421]
- 2. CFC concentration [Option ID = 10422]
- 3. Ozone concentration [Option ID = 10423]
- 4. CO concentration [Option ID = 10424]

Correct Answer :-

• Ozone concentration [Option ID = 10423]

44) Inbreeding depression in a species is characterized by: [Question ID = 2611]

- 1. Reduced fitness [Option ID = 10441]
- 2. Fixation of useful genes [Option ID = 10442]
- 3. Speciation [Option ID = 10444]
- 4. Population explosion [Option ID = 10443]

Correct Answer :-

· Reduced fitness [Option ID = 10441]

45) An example of non-renewable, non-fossil energy resource is: [Question ID = 2587]

- 1. Tidal [Option ID = 10347]
- 2. Petrol [Option ID = 10345]
- 3. Uranium [Option ID = 10348]
- 4. Coal [Option ID = 10346]

Correct Answer :-

Uranium [Option ID = 10348]

46) Identify the incorrect statement regarding IPAT model: [Question ID = 2597]

- 1. IPAT Model was proposed by Biologist Paul Ehrlich and Physicist John Holdren [Option ID = 10385]
- 2. It is a mathematical relationship between environmental impact and forces driving them [Option ID = 10386]
- 3. IPAT equation should be carefully interpreted as all the impacts of a particular technology on the complex environmental system are difficult to interpret [Option ID = 10388]
- 4. In IPAT, I= Industrial growth, P=Population, A=Affluence, T=Technology [Option ID = 10387]

Correct Answer :-



- In IPAT, I= Industrial growth, P=Population, A=Affluence, T=Technology [Option ID = 10387]
- 47) Identify the correct statement. When a tiger eats flesh and runs: [Question ID = 2604]
- 1. The chemical energy present in its food is not destroyed [Option ID = 10413]
- 2. All of these [Option ID = 10416]
- 3. None of the energy is lost from a thermodynamic point of view as this energy is still present in the physical environment [Option ID = 10415]
- 4. Some of the energy present in its food is released as heat, which cannot be reused for any biological work [Option ID = 10414]

Correct Answer :-

All of these [Option ID = 10416]

48) Identify the random sampling method among the following: [Question ID = 2594]

- 1. Convenience sampling [Option ID = 10375]
- 2. Quota sampling [Option ID = 10374]
- 3. Judgment sampling [Option ID = 10373]
- 4. Stratified sampling [Option ID = 10376]

Correct Answer :-

Stratified sampling [Option ID = 10376]

49) UN document 'Our Common Future' was related to: [Question ID = 2580]

- Conservation of Biodiversity [Option ID = 10317]
- Protection of Environment [Option ID = 10318]
- 3. Environmental Pollution [Option ID = 10319]
- 4. Sustainable Development [Option ID = 10320]

Correct Answer :-

• Sustainable Development [Option ID = 10320]

50) Red tides are cause and/or effect of: [Question ID = 2617]

- 1. Ecotoxicity in marine organisms [Option ID = 10466]
- 2. All of these [Option ID = 10468]
- 3. Blooms of pigmented algae [Option ID = 10465]
- 4. Reduced photosynthetic efficiency of aquatic plants [Option ID = 10467]

Correct Answer :-

All of these [Option ID = 10468]

