

# DU MSc Environmental Studies

Topic:- ES MSC S2N

**1) Which of the following is thought to be a possible consequence of rising CO<sub>2</sub> levels?**

**[Question ID = 10618]**

1. Increased breakdown of atmospheric ozone [Option ID = 42466]
2. Increased vegetative productivity [Option ID = 42467]
3. Falling global temperature [Option ID = 42468]
4. More rapid warming at the equator than at the poles [Option ID = 42469]

**Correct Answer :-**

- Increased vegetative productivity [Option ID = 42467]

**2) When climbing a mountain, we can observe transitions in biological communities that are analogous to the changes:**

**[Question ID = 10619]**

1. at different depths in the ocean [Option ID = 42470]
2. in a community through different seasons [Option ID = 42471]
3. in an ecosystem as it evolves over time [Option ID = 42472]
4. in biomes at different latitudes [Option ID = 42473]

**Correct Answer :-**

- in biomes at different latitudes [Option ID = 42473]

**3) What do diversity indices such as the Shannon Index take into account?**

**[Question ID = 10620]**

1. Alpha diversity and beta diversity [Option ID = 42474]
2. Evenness and beta diversity [Option ID = 42475]
3. Species richness and evenness [Option ID = 42476]
4. Species richness and beta diversity [Option ID = 42477]

**Correct Answer :-**

- Species richness and evenness [Option ID = 42476]

**4) The theory that primary productivity is limited by whichever necessary metabolic requirement is present in the least supply relative to demand is known as:**

**[Question ID = 10621]**

1. Law of minimum metabolic requirement [Option ID = 42478]
2. Minimum metabolic requirement [Option ID = 42479]
3. Principle of limiting factors [Option ID = 42480]
4. Theory of the minimum metabolic requirement [Option ID = 42481]

**Correct Answer :-**

- Principle of limiting factors [Option ID = 42480]

**5) A variable that is affected by and responds to changes in the manipulated variable is called:**

**[Question ID = 10622]**

1. controlled variable [Option ID = 42482]
2. dependent variable [Option ID = 42483]
3. independent variable [Option ID = 42484]
4. random variable [Option ID = 42485]

**Correct Answer :-**

- dependent variable [Option ID = 42483]

**6) In a frequency distribution graph, frequencies are presented on the \_\_\_\_\_ and the scores (categories) are listed on the \_\_\_\_\_.**

**[Question ID = 10623]**

1. Class interval/horizontal line [Option ID = 42486]
2. Horizontal line/vertical line [Option ID = 42487]
3. X axis /Y axis [Option ID = 42488]
4. Y axis/X axis [Option ID = 42489]

**Correct Answer :-**

- Y axis/X axis [Option ID = 42489]

**7) Which of the following international conventions restricts international trade in endangered species?**

**[Question ID = 10624]**

1. CBD [Option ID = 42490]
2. CITES [Option ID = 42491]

<p>3. ESA [Option ID = 42492]</p> <p>4. UNEP [Option ID = 42493]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• CITES [Option ID = 42491]</li> </ul>
<p><b>8) An ecological footprint is:</b>  <b>[Question ID = 10625]</b></p> <p>1. a measure of the earth's biological capacity [Option ID = 42494]</p> <p>2. amount of wilderness available on earth [Option ID = 42495]</p> <p>3. amount of biologically productive land and water a person uses [Option ID = 42496]</p> <p>4. a measure of a person's contribution to creating a sustainable environment [Option ID = 42497]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• amount of biologically productive land and water a person uses [Option ID = 42496]</li> </ul>
<p><b>9) What is the difference between an endangered species and a threatened species?</b>  <b>[Question ID = 10626]</b></p> <p>1. A threatened species may still be abundant now but likely to become endangered in the near future [Option ID = 42498]</p> <p>2. A threatened species is at the brink of extinction now and an endangered species is likely to be at the brink in the near future [Option ID = 42499]</p> <p>3. A threatened species is becoming endangered specifically because of human activities [Option ID = 42500]</p> <p>4. There is no difference. The two terms are interchangeable [Option ID = 42501]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• A threatened species may still be abundant now but likely to become endangered in the near future [Option ID = 42498]</li> </ul>
<p><b>10) When a doctor uses a stethoscope to count your pulse rate, she is gathering information by using the_____ :</b>  <b>[Question ID = 10627]</b></p> <p>1. empirical method [Option ID = 42502]</p> <p>2. method of intuition [Option ID = 42503]</p> <p>3. method of authority [Option ID = 42504]</p> <p>4. rational method [Option ID = 42505]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• empirical method [Option ID = 42502]</li> </ul>
<p><b>11) The maximum per capita rate of increase achieved by a species under ideal environmental conditions is called the:</b>  <b>[Question ID = 10628]</b></p> <p>1. inherent rate of increase [Option ID = 42506]</p> <p>2. inherent growth rate [Option ID = 42507]</p> <p>3. intrinsic growth rate [Option ID = 42508]</p> <p>4. intrinsic rate of increase [Option ID = 42509]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• intrinsic rate of increase [Option ID = 42509]</li> </ul>
<p><b>12) What is the Lotka-Volterra competition model based on?</b>  <b>[Question ID = 10629]</b></p> <p>1. Exponential population growth equation [Option ID = 42510]</p> <p>2. Life table equation [Option ID = 42511]</p> <p>3. Logistic population growth equation [Option ID = 42512]</p> <p>4. Realized per capita growth rate equation [Option ID = 42513]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• Logistic population growth equation [Option ID = 42512]</li> </ul>
<p><b>13) The best measure of central tendency for an extremely skewed distribution of scores would be _____.</b>  <b>[Question ID = 10630]</b></p> <p>1. cannot be determined [Option ID = 42514]</p> <p>2. the mean [Option ID = 42515]</p> <p>3. the median [Option ID = 42516]</p> <p>4. the mode [Option ID = 42517]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>• the median [Option ID = 42516]</li> </ul>
<p><b>14) Trade winds are the prevailing pattern of surface winds. The factors determining patterns of these winds are:</b>  <b>[Question ID = 10631]</b></p> <p>1. gravitational field of Planet Earth  [Option ID = 42518]</p> <p>2. rotational pattern of Earth  [Option ID = 42519]</p>

<p>3. uneven surface temperature</p> <p>[Option ID = 42520]</p> <p>4. All of these</p> <p>[Option ID = 42521]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>uneven surface temperature</li> </ul> <p>[Option ID = 42520]</p>
<p><b>15) Which of the following shows the correct order of soil texture from larger to smaller diameters?</b></p> <p><b>[Question ID = 10632]</b></p> <p>1. Gravel, sand, clay, and silt [Option ID = 42522]</p> <p>2. Gravel, sand, silt, and clay [Option ID = 42523]</p> <p>3. Gravel, silt, sand, and clay [Option ID = 42524]</p> <p>4. Sand, gravel, silt, and clay [Option ID = 42525]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Gravel, sand, silt, and clay [Option ID = 42523]</li> </ul>
<p><b>16) All members in which of the following groups have the greatest number of characteristics in common?</b></p> <p><b>[Question ID = 10633]</b></p> <p>1. Class [Option ID = 42526]</p> <p>2. Genus [Option ID = 42527]</p> <p>3. Phylum [Option ID = 42528]</p> <p>4. Species [Option ID = 42529]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Species [Option ID = 42529]</li> </ul>
<p><b>17) What does the system of binomial nomenclature that assigns a unique name to each organism describe?</b></p> <p><b>[Question ID = 10634]</b></p> <p>1. Family and species [Option ID = 42530]</p> <p>2. Genus and family [Option ID = 42531]</p> <p>3. Order and family [Option ID = 42532]</p> <p>4. Species and genus [Option ID = 42533]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Species and genus [Option ID = 42533]</li> </ul>
<p><b>18) Wings of birds and insects have the same function but they do not share the same evolutionary origin. Bird and insect wings are considered to be which of the following?</b></p> <p><b>[Question ID = 10635]</b></p> <p>1. Analogous [Option ID = 42534]</p> <p>2. Homologous [Option ID = 42535]</p> <p>3. Phylogenetic [Option ID = 42536]</p> <p>4. Taxonomic [Option ID = 42537]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Analogous [Option ID = 42534]</li> </ul>
<p><b>19) Which of the following animal phyla is most likely to leave fossils?</b></p> <p><b>[Question ID = 10636]</b></p> <p>1. Annelida [Option ID = 42538]</p> <p>2. Cnidaria [Option ID = 42539]</p> <p>3. Chordata [Option ID = 42540]</p> <p>4. Nematoda [Option ID = 42541]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Chordata [Option ID = 42540]</li> </ul>
<p><b>20) Which of the following systems is active under stress?</b></p> <p><b>[Question ID = 10637]</b></p> <p>1. Complete autonomic nervous system [Option ID = 42542]</p> <p>2. Parasympathetic nervous system [Option ID = 42543]</p> <p>3. Sympathetic nervous system [Option ID = 42544]</p> <p>4. Somatic nervous system [Option ID = 42545]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>Sympathetic nervous system [Option ID = 42544]</li> </ul>
<p><b>21) Migration of fish from fresh water to marine water for reproduction is known as:</b></p> <p><b>[Question ID = 10638]</b></p> <p>1. Anadromous [Option ID = 42546]</p>

2. Amphidromous [Option ID = 42547]
3. Catadromous [Option ID = 42548]
4. Potamodromous [Option ID = 42549]

**Correct Answer :-**

- Catadromous [Option ID = 42548]

**22) How does pupa survive through its life cycle?**

**[Question ID = 10639]**

1. Caudal flaps [Option ID = 42550]
2. Feeding through the water [Option ID = 42551]
3. Feeding through the proboscis [Option ID = 42552]
4. Through food accumulated in the larval stage [Option ID = 42553]

**Correct Answer :-**

- Through food accumulated in the larval stage [Option ID = 42553]

**23) Melatonin is synthesized from which of the following?**

**[Question ID = 10640]**

1. Histamine [Option ID = 42554]
2. Melanine [Option ID = 42555]
3. Tyrosine [Option ID = 42556]
4. Tryptophan [Option ID = 42557]

**Correct Answer :-**

- Tryptophan [Option ID = 42557]

**24) The slogan ‘Taking Action for living planet’ was used by:**

**[Question ID = 10641]**

1. UNESCO  
[Option ID = 42558]
2. United Nations Environment Programme  
[Option ID = 42559]
3. World bank  
[Option ID = 42560]
4. World Wide Fund for Nature  
[Option ID = 42561]

**Correct Answer :-**

- World Wide Fund for Nature  
[Option ID = 42561]

**25) The Guinness Book of World Records has declared \_\_\_\_\_ as the largest river island in the world.**

**[Question ID = 10642]**

1. Bananal [Option ID = 42562]
2. Marajo [Option ID = 42563]
3. Majuli [Option ID = 42564]
4. Nongkhnum [Option ID = 42565]

**Correct Answer :-**

- Majuli [Option ID = 42564]

**26) In an experiment, we manipulate a/an \_\_\_\_\_ variable to observe an effect on a/an \_\_\_\_\_ variable.**

**[Question ID = 10643]**

1. dependent, another dependent [Option ID = 42566]
2. dependent, independent [Option ID = 42567]
3. independent, another independent [Option ID = 42568]
4. independent, dependent [Option ID = 42569]

**Correct Answer :-**

- independent, dependent [Option ID = 42569]

**27) Rooted plants are found only in the \_\_\_\_\_ zone of a lake.**

**[Question ID = 10644]**

1. limnetic [Option ID = 42570]
2. littoral [Option ID = 42571]
3. nektonic [Option ID = 42572]
4. pelagic [Option ID = 42573]

**Correct Answer :-**

- littoral [Option ID = 42571]

**28) What does “Environmental Unity” mean?**

**[Question ID = 10645]**

1. Everything affects everything else  
[Option ID = 42574]
2. Humans have only one environment  
[Option ID = 42575]
3. The environment is a closed system  
[Option ID = 42576]
4. All of these  
[Option ID = 42577]

**Correct Answer :-**

- Everything affects everything else  
[Option ID = 42574]

**29) Exponential growth is characterized by which of the following?**

**[Question ID = 10646]**

1. 1) Growth at a constant rate  
[Option ID = 42578]
2. 2) Growth at constant N  
[Option ID = 42579]
3. 3) Both (1) and (2)  
[Option ID = 42580]
4. 4) None of these  
[Option ID = 42581]

**Correct Answer :-**

- 1) Growth at a constant rate  
[Option ID = 42578]

**30) In terms of a population, what does “age structure” refer to?**

**[Question ID = 10647]**

1. Per capita production of goods and services by age  
[Option ID = 42582]
2. The proportion of the population in different age groups  
[Option ID = 42583]
3. The rate of population growth  
[Option ID = 42584]
4. All of these  
[Option ID = 42585]

**Correct Answer :-**

- The proportion of the population in different age groups  
[Option ID = 42583]

**31) The processes responsible for formation and change of Earth's materials are collectively known as the:**

**[Question ID = 10648]**

1. Atmospheric cycle [Option ID = 42586]
2. Continental cycle [Option ID = 42587]
3. Geologic cycle [Option ID = 42588]
4. Hydrologic cycle [Option ID = 42589]

**Correct Answer :-**

- Geologic cycle [Option ID = 42588]

**32) In the context of biochemical cycles, what does “flux” refer to?**

**[Question ID = 10649]**

1. A state of disturbance from natural conditions [Option ID = 42590]
2. Loss of matter or energy from the Earth system [Option ID = 42591]
3. The loss of water vapour through the pores of plants [Option ID = 42592]
4. The transfer of material or energy from one reservoir to another [Option ID = 42593]

**Correct Answer :-**

- The transfer of material or energy from one reservoir to another [Option ID = 42593]

**33) Atmospheric levels of carbon dioxide and oxygen are affected by the short-term carbon cycle and which of the following long-term cycle?**

**[Question ID = 10650]**

1. Carbonate-silicate cycle [Option ID = 42594]
2. Carbon-phosphate cycle [Option ID = 42595]
3. Carbon-silicate cycle [Option ID = 42596]
4. Carbon-sulphate cycle [Option ID = 42597]

**Correct Answer :-**

- Carbonate-silicate cycle [Option ID = 42594]

**34) What are the two fundamental processes that must be studied to understand ecosystem structure and functioning?**

**[Question ID = 10651]**

1. Flow of energy and cycling of chemical elements  
[Option ID = 42598]
2. Photosynthesis and respiration  
[Option ID = 42599]
3. Waste decomposition and cycling of energy  
[Option ID = 42600]
4. All of these  
[Option ID = 42601]

**Correct Answer :-**

- Flow of energy and cycling of chemical elements  
[Option ID = 42598]

**35) What are the species that are most abundant or otherwise most important in an ecological community called?**

**[Question ID = 10652]**

1. Common [Option ID = 42602]
2. Dominant [Option ID = 42603]
3. Pioneer [Option ID = 42604]
4. Predominant [Option ID = 42605]

**Correct Answer :-**

- Dominant [Option ID = 42603]

**36) Which of the following processes lead to biological evolution?**

**[Question ID = 10653]**

1. Migration and genetic drift  
[Option ID = 42606]
2. Mutation  
[Option ID = 42607]
3. Natural selection  
[Option ID = 42608]
4. All of these  
[Option ID = 42609]

**Correct Answer :-**

- All of these  
[Option ID = 42609]

**37) What are the dominant plants in a fresh water biome called?**

**[Question ID = 10654]**

1. *Eichhornia sp.*  
[Option ID = 42610]
2. *Phytoplankton*  
[Option ID = 42611]
3. *Spirogyra*  
[Option ID = 42612]
4. *Vallisneria sp.*  
[Option ID = 42613]

Correct Answer :-

- *Phytoplankton*

[Option ID = 42611]

**38) In general what percentage of energy received by green plants from the sun is converted into new plant tissues?**

**[Question ID = 10655]**

1. less than 5 [Option ID = 42614]
2. less than 10 [Option ID = 42615]
3. less than 15 [Option ID = 42616]
4. less than 25 [Option ID = 42617]

**Correct Answer :-**

- less than 5 [Option ID = 42614]

**39) What are the main components of Integrated Pest Management (IPM)?**

**[Question ID = 10656]**

1. Biological control  
[Option ID = 42618]
2. Land culture  
[Option ID = 42619]
3. Chemical control  
[Option ID = 42620]
4. All of these  
[Option ID = 42621]

**Correct Answer :-**

- All of these

[Option ID = 42621]

**40) The dose of a toxin at which a specified percentage of test population dies is known as:**

**[Question ID = 10657]**

1. control [Option ID = 42622]
2. lethal dose [Option ID = 42623]
3. placebo dose [Option ID = 42624]
4. toxic dose [Option ID = 42625]

**Correct Answer :-**

- lethal dose [Option ID = 42623]

**41) Why is natural gas considered a better fossil fuel than oil?**

**[Question ID = 10658]**

1. Burning natural gas is cleaner than burning oil [Option ID = 42626]
2. Gas commands a higher price than oil [Option ID = 42627]
3. Gas is easier to transport [Option ID = 42628]
4. Gas is a renewable resource [Option ID = 42629]

**Correct Answer :-**

- Burning natural gas is cleaner than burning oil [Option ID = 42626]

**42) Direct conversion of electricity using sunlight without an intermediate fluid medium is accomplished by which of the following?**

**[Question ID = 10659]**

1. Li-ion battery  
[Option ID = 42630]
2. Photochemical cell  
[Option ID = 42631]
3. Photovoltaic cell  
[Option ID = 42632]
4. All of these  
[Option ID = 42633]

**Correct Answer :-**

- Photovoltaic cell

[Option ID = 42632]

**43) Long-term plans expect to finish the clean-up work at Chernobyl by which of the following year?**

**[Question ID = 10660]**

1. 2020 [Option ID = 42634]
2. 2025 [Option ID = 42635]
3. 2036 [Option ID = 42636]
4. 2065 [Option ID = 42637]

**Correct Answer :-**

- 2065 [Option ID = 42637]

**44) What is saltwater intrusion?**

**[Question ID = 10661]**

1. Excessive withdrawal of groundwater  
[Option ID = 42638]
2. Invasion of saltwater into freshwater supplies  
[Option ID = 42639]
3. Natural outflow of water from a natural spring  
[Option ID = 42640]
4. All of these  
[Option ID = 42641]

**Correct Answer :-**

- Invasion of saltwater into freshwater supplies  
[Option ID = 42639]

**45) Which of the following compounds absorb earthshine in the wavelengths that typically pass through the atmospheric window?**

**[Question ID = 10662]**

1. Carbon dioxide [Option ID = 42642]
2. Chloroflourocarbons [Option ID = 42643]
3. Ozone [Option ID = 42644]
4. Water vapour [Option ID = 42645]

**Correct Answer :-**

- Chloroflourocarbons [Option ID = 42643]

**46) About what percentage of the solar energy is reflected back by ice?**

**[Question ID = 10663]**

1. 10 - 25% [Option ID = 42646]
2. 30 - 45% [Option ID = 42647]
3. 60 - 75% [Option ID = 42648]
4. 80 - 95% [Option ID = 42649]

**Correct Answer :-**

- 80 - 95% [Option ID = 42649]

**47) Sulphur dioxide emissions are predominantly caused by which of the following?**

**[Question ID = 10664]**

1. 1) Burning coal  
[Option ID = 42650]
2. 2) Automobile emissions  
[Option ID = 42651]
3. 3) Both (1) and (2)  
[Option ID = 42652]
4. 4) Photochemical smog  
[Option ID = 42653]

**Correct Answer :-**

- 3) Both (1) and (2)  
[Option ID = 42652]

**48) What is the residence time of CFCs in the atmosphere?**

**[Question ID = 10665]**

1. 10 years [Option ID = 42654]
2. 100 years [Option ID = 42655]
3. 1000 years [Option ID = 42656]
4. 10000 years [Option ID = 42657]



Correct Answer :-

- 100 years [Option ID = 42655]

49) Which of the following is a type of evaporite?

[Question ID = 10666]

1. 1) Marine

[Option ID = 42658]

2. 2) Nonmarine

[Option ID = 42659]

3. 3) Both (1) and (2)

[Option ID = 42660]

4. 4) None of these

[Option ID = 42661]

Correct Answer :-

- 3) Both (1) and (2)

[Option ID = 42660]

50) How does urbanization affect a local hydrologic system?

[Question ID = 10667]

1. By increasing storm runoff

[Option ID = 42662]

2. By increasing infiltration into groundwater

[Option ID = 42663]

3. By intercepting storm runoff before it reaches streams

[Option ID = 42664]

4. All of these

[Option ID = 42665]

Correct Answer :-

- By increasing storm runoff

[Option ID = 42662]

51) Which of the following radiations is *not* affected by stratospheric ozone and is transmitted to the surface of the earth?

[Question ID = 10668]

1. UV-A

[Option ID = 42666]

2. UV-B

[Option ID = 42667]

3. UV-C

[Option ID = 42668]

4. All of the above

[Option ID = 42669]

Correct Answer :-

- UV-A

[Option ID = 42666]

52) Which of the following set of gases are emitted at municipal landfill sites?

[Question ID = 10669]

1. CH<sub>4</sub>, H<sub>2</sub>S, CO<sub>2</sub>, NH<sub>4</sub> [Option ID = 42670]

2. NH<sub>4</sub>, CO, SO<sub>2</sub>, CH<sub>4</sub> [Option ID = 42671]

3. NH<sub>4</sub>, H<sub>2</sub>S, CO [Option ID = 42672]

4. SO<sub>2</sub> and CH<sub>4</sub> [Option ID = 42673]

Correct Answer :-

- CH<sub>4</sub>, H<sub>2</sub>S, CO<sub>2</sub>, NH<sub>4</sub> [Option ID = 42670]

53) Which of the following is true for flows through the boundaries of a closed thermodynamic system?

[Question ID = 10670]

1. Energy flows but matter does not [Option ID = 42674]

2. Energy and Matter flow [Option ID = 42675]

3. Matter flows but energy does not [Option ID = 42676]

4. Neither energy nor matter flow [Option ID = 42677]

**Correct Answer :-**

- Energy flows but matter does not [Option ID = 42674]

**54) The largest soil type found in India is:**

**[Question ID = 10671]**

1. Alpine soil [Option ID = 42678]
2. Clayey soil [Option ID = 42679]
3. Red soil [Option ID = 42680]
4. Black soil [Option ID = 42681]

**Correct Answer :-**

- Red soil [Option ID = 42680]

**55) Polychlorinated biphenyls (PCBs) can cause:**

**[Question ID = 10672]**

1. cancers of liver and stomach  
[Option ID = 42682]
2. foetal deformities  
[Option ID = 42683]
3. nervous disorder  
[Option ID = 42684]
4. All of the above  
[Option ID = 42685]

**Correct Answer :-**

- All of the above

[Option ID = 42685]

**56) The Climate Change Action Plan of the Government of India has identified \_\_\_\_\_ as a priority for exploitation.**

**[Question ID = 10673]**

1. Nuclear energy [Option ID = 42686]
2. Solar energy [Option ID = 42687]
3. Thermal energy [Option ID = 42688]
4. Wind energy [Option ID = 42689]

**Correct Answer :-**

- Solar energy [Option ID = 42687]

**57)  $t$ -distribution in a large population approaches:**

**[Question ID = 10674]**

1. chi-square distribution  
[Option ID = 42690]
2. binomial distribution  
[Option ID = 42691]
3. normal distribution  
[Option ID = 42692]
4. Poisson distribution  
[Option ID = 42693]

**Correct Answer :-**

- normal distribution

[Option ID = 42692]

**58) As per the Bureau of Indian Standards (BIS), the total dissolved solids in a sample of domestic drinking water must *not* exceed:**

**[Question ID = 10675]**

1. 100 ppm  
[Option ID = 42694]
2. 250 ppm  
[Option ID = 42695]
3. 500 ppm  
[Option ID = 42696]

<p>4. 600 ppm</p> <p>[Option ID = 42697]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>500 ppm</li> </ul> <p>[Option ID = 42696]</p>
<p><b>59) The organic component of a water supply can be best assessed by measuring:</b></p> <p><b>[Question ID = 10676]</b></p> <ol style="list-style-type: none"> <li>BOD [Option ID = 42698]</li> <li>COD [Option ID = 42699]</li> <li>DO [Option ID = 42700]</li> <li>TOC [Option ID = 42701]</li> </ol>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>TOC [Option ID = 42701]</li> </ul>
<p><b>60) _____ is a superbug that is credited with the ability to clean up oil spills.</b></p> <p><b>[Question ID = 10677]</b></p> <ol style="list-style-type: none"> <li><i>Bacillus subtilis</i></li> </ol> <p>[Option ID = 42702]</p> <ol style="list-style-type: none"> <li><i>Bacillus denitrificans</i></li> </ol> <p>[Option ID = 42703]</p> <ol style="list-style-type: none"> <li><i>Pseudomonas putida</i></li> </ol> <p>[Option ID = 42704]</p> <ol style="list-style-type: none"> <li><i>Rhizobium olivera</i></li> </ol> <p>[Option ID = 42705]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li><i>Pseudomonas putida</i></li> </ul> <p>[Option ID = 42704]</p>
<p><b>61) Hospitals employ red coloured containers to dump_____ .</b></p> <p><b>[Question ID = 10678]</b></p> <ol style="list-style-type: none"> <li>discarded laboratory cultures [Option ID = 42706]</li> <li>discarded sharps [Option ID = 42707]</li> <li>human anatomical waste [Option ID = 42708]</li> <li>housekeeping waste [Option ID = 42709]</li> </ol>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>discarded laboratory cultures [Option ID = 42706]</li> </ul>
<p><b>62) _____ facilitates cellulose degradation in termite gut.</b></p> <p><b>[Question ID = 10679]</b></p> <ol style="list-style-type: none"> <li><i>Citrobacter</i></li> </ol> <p>[Option ID = 42710]</p> <ol style="list-style-type: none"> <li><i>Enterococcus</i></li> </ol> <p>[Option ID = 42711]</p> <ol style="list-style-type: none"> <li><i>Enterobacter</i></li> </ol> <p>[Option ID = 42712]</p> <ol style="list-style-type: none"> <li><i>Trichonympha</i></li> </ol> <p>[Option ID = 42713]</p>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li><i>Trichonympha</i></li> </ul> <p>[Option ID = 42713]</p>
<p><b>63) Baseline studies in an Environmental Impact Assessment refer to:</b></p> <p><b>[Question ID = 10680]</b></p> <ol style="list-style-type: none"> <li>identification of the best available project options [Option ID = 42714]</li> <li>the anthropogenic profile of the project area [Option ID = 42715]</li> <li>the floral and faunal status of the proposed project area [Option ID = 42716]</li> <li>the prevalent environmental setting of the proposed project area [Option ID = 42717]</li> </ol>
<p><b>Correct Answer :-</b></p> <ul style="list-style-type: none"> <li>the prevalent environmental setting of the proposed project area [Option ID = 42717]</li> </ul>

**64) Remote sensing earth observing satellites are normally stationed at:**

**[Question ID = 10681]**

1. Equatorial orbit  
[Option ID = 42718]
2. Geo-synchronous orbit  
[Option ID = 42719]
3. Sun synchronous orbit  
[Option ID = 42720]
4. All of these  
[Option ID = 42721]

**Correct Answer :-**

- Sun synchronous orbit  
[Option ID = 42720]

**65) Surface winds around the mid latitude are usually:**

**[Question ID = 10682]**

1. Cyclonic [Option ID = 42722]
2. Geostrophic [Option ID = 42723]
3. Sungeostrophic [Option ID = 42724]
4. Typhoonic [Option ID = 42725]

**Correct Answer :-**

- Geostrophic [Option ID = 42723]

**66) After the official notification of an Environmental Impact Assessment, public hearing must be held within how many days?**

**[Question ID = 10683]**

1. 10 days [Option ID = 42726]
2. 20 days [Option ID = 42727]
3. 30 days [Option ID = 42728]
4. 40 days [Option ID = 42729]

**Correct Answer :-**

- 30 days [Option ID = 42728]

**67) Lincoln index is a statistical measure used to estimate which of the following?**

**[Question ID = 10684]**

1. Total dominance [Option ID = 42730]
2. Total frequency [Option ID = 42731]
3. Total population density [Option ID = 42732]
4. Total population density [Option ID = 42733]

**Correct Answer :-**

- Total population density [Option ID = 42732]

**68) The nature of food web at the developmental stage of a succession is:**

**[Question ID = 10685]**

1. linear, predominantly detritus [Option ID = 42734]
2. linear, predominantly grazing [Option ID = 42735]
3. web like, predominantly detritus [Option ID = 42736]
4. web like, predominantly grazing [Option ID = 42737]

**Correct Answer :-**

- linear, predominantly grazing [Option ID = 42735]

**69) Isogons are the points that join beds of:**

**[Question ID = 10686]**

1. equal dip amount [Option ID = 42738]
2. equal thickness [Option ID = 42739]
3. opposite strike direction [Option ID = 42740]
4. same strike direction [Option ID = 42741]

**Correct Answer :-**

- equal dip amount [Option ID = 42738]

**70) A drowned river valley estuary is formed when:**

**[Question ID = 10687]**

1. a barrier island or sand bar separates a section of the coast where fresh water enters. [Option ID = 42742]
2. sea level rose at the end of the last glacial age invading low lands and rivers. [Option ID = 42743]

3. a deep valley is created by retreating glaciers. [Option ID = 42744]  
4. land sinks due to movements of the crust. [Option ID = 42745]

**Correct Answer :-**

- sea level rose at the end of the last glacial age invading low lands and rivers. [Option ID = 42743]

**71) Which of the following bio-fuels is produced from acidification and distillation of woody crops?**

**[Question ID = 10688]**

1. Ethanol [Option ID = 42746]
2. Esters [Option ID = 42747]
3. Methanol [Option ID = 42748]
4. Producer gas [Option ID = 42749]

**Correct Answer :-**

- Methanol [Option ID = 42748]

**72) A good automobile fuel in addition to having high calorific value should have:**

**[Question ID = 10689]**

1. high ignition temperature [Option ID = 42750]
2. high viscosity [Option ID = 42751]
3. low ignition temperature [Option ID = 42752]
4. moderate ignition temperature [Option ID = 42753]

**Correct Answer :-**

- moderate ignition temperature [Option ID = 42753]

**73) Aquifers that extend continuously from the land surface through material of high permeability are:**

**[Question ID = 10690]**

1. aquitards [Option ID = 42754]
2. aquicludes [Option ID = 42755]
3. confined aquifers [Option ID = 42756]
4. unconfined aquifers [Option ID = 42757]

**Correct Answer :-**

- unconfined aquifers [Option ID = 42757]

**74) The process of splitting bigger hydrocarbon into smaller hydrocarbon molecules is called:**

**[Question ID = 10691]**

1. cracking [Option ID = 42758]
2. combustion [Option ID = 42759]
3. pyrolysis [Option ID = 42760]
4. thermal decomposition [Option ID = 42761]

**Correct Answer :-**

- cracking [Option ID = 42758]

**75) The sequence for ease of decomposition of organic compounds in soil is:**

**[Question ID = 10692]**

1. Crude protein - Starch - Fat - Lignin - Hemicellulose [Option ID = 42762]
2. Fat - Starch - Lignin - Hemicellulose - Crude protein [Option ID = 42763]
3. Lignin - Hemicellulose - Starch - Crude protein - Fat [Option ID = 42764]
4. Starch - Crude protein - Hemicellulose - Fat - Lignin [Option ID = 42765]

**Correct Answer :-**

- Starch - Crude protein - Hemicellulose - Fat - Lignin [Option ID = 42765]

**76) Raunkiaer's normal biological spectrum for phanerogamic flora of the world exhibits which one of the following sequences of occurrence of different life forms?**

**[Question ID = 10693]**

1. Phanerophytes, Chaemophytes, Hemicryptophytes, Cryptophytes, Therophytes [Option ID = 42766]
2. Phanerophytes, Hemicryptophytes, Cryptophytes, Chaemophytes, Therophytes [Option ID = 42767]
3. Phanerophytes, Hemicryptophytes, Therophytes, Chaemophytes, Cryptophytes [Option ID = 42768]
4. Phanerophytes, Hemicryptophytes, Therophytes, Cryptophytes, Chaemophytes [Option ID = 42769]

**Correct Answer :-**

- Phanerophytes, Hemicryptophytes, Therophytes, Chaemophytes, Cryptophytes [Option ID = 42768]

**77) Which of the following categories of earthworms is most suitable for wasteland reclamation?**

**[Question ID = 10694]**

1. Epigeic [Option ID = 42770]
2. Anecic [Option ID = 42771]
3. Endogeic [Option ID = 42772]
4. None of the above [Option ID = 42773]

**Correct Answer :-**

- Endogamic [Option ID = 42772]

**78) The Keystone predator species maintain diversity in a community by:**

**[Question ID = 10695]**

1. allowing immigration of other predators [Option ID = 42774]
2. competitively excluding other predators [Option ID = 42775]
3. coevolving with their prey [Option ID = 42776]
4. preying on community's dominant species [Option ID = 42777]

**Correct Answer :-**

- preying on community's dominant species [Option ID = 42777]

**79) The power to declare an area as a sanctuary or national park of central Government in India's Wildlife (Protection) Act 1972 is under:**

**[Question ID = 10696]**

1. Section 38 [Option ID = 42778]
2. Section 39 [Option ID = 42779]
3. Section 18 [Option ID = 42780]
4. Section 27 [Option ID = 42781]

**Correct Answer :-**

- Section 38 [Option ID = 42778]

**80) As per the Water (Prevention & Control of Pollution) 1974 Act of India, the entire National Capital Territory of Delhi has been declared as \_\_\_\_\_ under Section 19.**

**[Question ID = 10697]**

1. Water pollution control area  
[Option ID = 42782]
2. Water pollution prevention area  
[Option ID = 42783]
3. Water pollution prevention control area  
[Option ID = 42784]
4. None of these  
[Option ID = 42785]

**Correct Answer :-**

- Water pollution prevention control area  
[Option ID = 42784]

**81) Noise pollution was inserted as a type of pollution in the Air (Prevention & Control of Pollution) Act in:**

**[Question ID = 10698]**

1. 1981 [Option ID = 42786]
2. 1982 [Option ID = 42787]
3. 1987 [Option ID = 42788]
4. 2000 [Option ID = 42789]

**Correct Answer :-**

- 1987 [Option ID = 42788]

**82) Islets of Langerhans are present in which of the following organs?**

**[Question ID = 10699]**

1. Intestines [Option ID = 42790]
2. Lymph Nodes [Option ID = 42791]
3. Pancreas [Option ID = 42792]
4. Thyroid [Option ID = 42793]

**Correct Answer :-**

- Pancreas [Option ID = 42792]

**83) The loss of genetic variation when a population is established by a small number of individuals from a larger population is called:**

**[Question ID = 10700]**

1. Founder's Effect  
[Option ID = 42794]
2. Pleiotropy  
[Option ID = 42795]
3. Settler's Effect

<div> <div>[Option ID = 42796]</div> <div>4. None of these</div> <div>[Option ID = 42797]</div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Founder's Effect</li> </ul> </div> <div>[Option ID = 42794]</div> </div>
<div> <div>84) Echolocation in Bats and Cetaceans (Whales and Dolphins) is an example of which of the following?</div> <div>[Question ID = 10701]</div> <div> <div>1. Convergent Evolution [Option ID = 42798]</div> <div>2. Divergent Evolution [Option ID = 42799]</div> <div>3. Homeostasis [Option ID = 42800]</div> <div>4. Parallel Evolution [Option ID = 42801]</div> </div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Convergent Evolution [Option ID = 42798]</li> </ul> </div> </div>
<div> <div>85) Which of the following is <i>not</i> a pesticide?</div> <div>[Question ID = 10702]</div> <div> <div>1. Dieldrin</div> <div>[Option ID = 42802]</div> <div>2. Dichlorodiphenyldichloroethane (DDD)</div> <div>[Option ID = 42803]</div> <div>3. Lindane</div> <div>[Option ID = 42804]</div> <div>4. Phosgene</div> <div>[Option ID = 42805]</div> </div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Phosgene</li> </ul> </div> <div>[Option ID = 42805]</div> </div>
<div> <div>86) Which of the following atmospheric phenomenon is responsible for the blue colour of the sky during clear sunny days?</div> <div>[Question ID = 10703]</div> <div> <div>1. Electromagnetic scattering [Option ID = 42806]</div> <div>2. Geometric scattering [Option ID = 42807]</div> <div>3. Mie scattering [Option ID = 42808]</div> <div>4. Rayleigh scattering [Option ID = 42809]</div> </div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Rayleigh scattering [Option ID = 42809]</li> </ul> </div> </div>
<div> <div>87) Blue baby syndrome is caused by contamination from which of the following chemical substances?</div> <div>[Question ID = 10704]</div> <div> <div>1. Ammonia [Option ID = 42810]</div> <div>2. Fluoride [Option ID = 42811]</div> <div>3. Mercury [Option ID = 42812]</div> <div>4. Nitrates [Option ID = 42813]</div> </div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Nitrates [Option ID = 42813]</li> </ul> </div> </div>
<div> <div>88) Ant bites are rich in which of the following acids?</div> <div>[Question ID = 10705]</div> <div> <div>1. Formic acid [Option ID = 42814]</div> <div>2. Hydrochloric acid [Option ID = 42815]</div> <div>3. Tartaric acid [Option ID = 42816]</div> <div>4. Trifluoromethanesulfonic acid [Option ID = 42817]</div> </div> </div>
<div> <div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Formic acid [Option ID = 42814]</li> </ul> </div> </div>
<div> <div>89) Which of the following is <i>not</i> a food preservation technique?</div> <div>[Question ID = 10706]</div> <div> <div>1. Curing</div> <div>[Option ID = 42818]</div> <div>2. Jellying</div> </div> </div>

<div>[Option ID = 42819]</div> <div>3. Irradiation</div> <div>[Option ID = 42820]</div> <div>4. Oxygenation</div> <div>[Option ID = 42821]</div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Oxygenation</li> </ul> </div> <div>[Option ID = 42821]</div>
<div>90) Which of the following compounds are generally responsible for the phenomenon of Bioluminescence?</div> <div>[Question ID = 10707]</div> <div> 1. Cytokinin [Option ID = 42822]  2. Lactiferin [Option ID = 42823]  3. Luciferin [Option ID = 42824]  4. Somatostatin [Option ID = 42825] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Luciferin [Option ID = 42824]</li> </ul> </div>
<div>91) Which of the following scientists discovered Jumping Genes?</div> <div>[Question ID = 10708]</div> <div> 1. Alec Jeffreys [Option ID = 42826]  2. Barbara McClintock [Option ID = 42827]  3. Elizabeth Winifred Jones [Option ID = 42828]  4. Har Gobind Khorana [Option ID = 42829] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Barbara McClintock [Option ID = 42827]</li> </ul> </div>
<div>92) Which type of seed dispersal primarily occurs during the night?</div> <div>[Question ID = 10709]</div> <div> 1. Anemochory [Option ID = 42830]  2. Chiropterochory [Option ID = 42831]  3. Malacochoy [Option ID = 42832]  4. Ornithochory [Option ID = 42833] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Chiropterochory [Option ID = 42831]</li> </ul> </div>
<div>93) As per the ‘latitudinal gradient of species diversity’, the species richness or biodiversity:</div> <div>[Question ID = 10710]</div> <div> 1. increases from the poles to the tropics [Option ID = 42834]  2. increases from tropics to the poles [Option ID = 42835]  3. shows patchy pattern with respect to latitude [Option ID = 42836]  4. shows no pattern with respect to latitude [Option ID = 42837] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>increases from the poles to the tropics [Option ID = 42834]</li> </ul> </div>
<div>94) Which among the following is a criterion for a region to be considered as Biodiversity Hotspot?</div> <div>[Question ID = 10711]</div> <div> 1. It must have at least 1500 vascular plants as endemics [Option ID = 42838]  2. It must have 50% or less of its original natural vegetation [Option ID = 42839]  3. It must have at least 1000 endemic vascular plant species [Option ID = 42840]  4. It must have all of its known species in the threatened list [Option ID = 42841] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>It must have at least 1500 vascular plants as endemics [Option ID = 42838]</li> </ul> </div>
<div>95) Who proposed the concept of Biodiversity Hotspots?</div> <div>[Question ID = 10712]</div> <div> 1. A G Tansley [Option ID = 42842]  2. E O Wilson [Option ID = 42843]  3. Norman Myers [Option ID = 42844]  4. Richard Dawkins [Option ID = 42845] </div>
<div>Correct Answer :-</div> <div> <ul style="list-style-type: none"> <li>Norman Myers [Option ID = 42844]</li> </ul> </div>
<div>96) The branch of biology that specifically deals with the study of amphibians is known as:</div> <div>[Question ID = 10713]</div> <div> 1. Batrachology [Option ID = 42846] </div>



2. Herpetology [Option ID = 42847]
3. Ichthyology [Option ID = 42848]
4. Mycology [Option ID = 42849]

**Correct Answer :-**

- Batrachology [Option ID = 42846]

**97) Which among the following represents living fossils?**

**[Question ID = 10714]**

1. Ctenophores  
[Option ID = 42850]
2. Ginkgo biloba  
[Option ID = 42851]
3. Horseshoe Crabs  
[Option ID = 42852]
4. All of these  
[Option ID = 42853]

**Correct Answer :-**

- All of these  
[Option ID = 42853]

**98) During ecological succession, a *k*-selected population tends to dominate in:**

**[Question ID = 10715]**

1. early stages  
[Option ID = 42854]
2. pioneer stages  
[Option ID = 42855]
3. mature stages  
[Option ID = 42856]
4. seral stages  
[Option ID = 42857]

**Correct Answer :-**

- mature stages  
[Option ID = 42856]

**99) Aerial roots are *not* found in which of the following plant/tree?**

**[Question ID = 10716]**

1. *Avicennia germinans*  
[Option ID = 42858]
2. *Rhizophora mangle*  
[Option ID = 42859]
3. *Ficus benghalensis*  
[Option ID = 42860]
4. *Daucus carota*  
[Option ID = 42861]

**Correct Answer :-**

- *Daucus carota*  
[Option ID = 42861]

**100) Lion-tailed macaques and Malabar pied hornbills are only found in the evergreen forests of Western Ghats. Such species are called:**

**[Question ID = 10717]**

1. Endemic [Option ID = 42862]
2. Restricted [Option ID = 42863]
3. Survivors [Option ID = 42864]
4. Threatened [Option ID = 42865]

**Correct Answer :-**

- Endemic [Option ID = 42862]