

DU MSc Environmental Studies

Topic:- ES MSC S2N

1) Which of the following is thought to be a possible consequence of rising CO₂ 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]

3. ESA [Option ID = 42492]
4. UNEP [Option ID = 42493]

Correct Answer :-

- CITES [Option ID = 42491]

8) An ecological footprint is:

[Question ID = 10625]

1. a measure of the earth's biological capacity [Option ID = 42494]
2. amount of wilderness available on earth [Option ID = 42495]
3. amount of biologically productive land and water a person uses [Option ID = 42496]
4. a measure of a person's contribution to creating a sustainable environment [Option ID = 42497]

Correct Answer :-

- amount of biologically productive land and water a person uses [Option ID = 42496]

9) What is the difference between an endangered species and a threatened species?

[Question ID = 10626]

1. A threatened species may still be abundant now but likely to become endangered in the near future [Option ID = 42498]
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]
3. A threatened species is becoming endangered specifically because of human activities [Option ID = 42500]
4. There is no difference. The two terms are interchangeable [Option ID = 42501]

Correct Answer :-

- A threatened species may still be abundant now but likely to become endangered in the near future [Option ID = 42498]

10) When a doctor uses a stethoscope to count your pulse rate, she is gathering information by using the _____ :

[Question ID = 10627]

1. empirical method [Option ID = 42502]
2. method of intuition [Option ID = 42503]
3. method of authority [Option ID = 42504]
4. rational method [Option ID = 42505]

Correct Answer :-

- empirical method [Option ID = 42502]

11) The maximum per capita rate of increase achieved by a species under ideal environmental conditions is called the:

[Question ID = 10628]

1. inherent rate of increase [Option ID = 42506]
2. inherent growth rate [Option ID = 42507]
3. intrinsic growth rate [Option ID = 42508]
4. intrinsic rate of increase [Option ID = 42509]

Correct Answer :-

- intrinsic rate of increase [Option ID = 42509]

12) What is the Lotka-Volterra competition model based on?

[Question ID = 10629]

1. Exponential population growth equation [Option ID = 42510]
2. Life table equation [Option ID = 42511]
3. Logistic population growth equation [Option ID = 42512]
4. Realized per capita growth rate equation [Option ID = 42513]

Correct Answer :-

- Logistic population growth equation [Option ID = 42512]

13) The best measure of central tendency for an extremely skewed distribution of scores would be _____.

[Question ID = 10630]

1. cannot be determined [Option ID = 42514]
2. the mean [Option ID = 42515]
3. the median [Option ID = 42516]
4. the mode [Option ID = 42517]

Correct Answer :-

- the median [Option ID = 42516]

14) Trade winds are the prevailing pattern of surface winds. The factors determining patterns of these winds are:

[Question ID = 10631]

1. gravitational field of Planet Earth
[Option ID = 42518]
2. rotational pattern of Earth
[Option ID = 42519]

3. uneven surface temperature

[Option ID = 42520]

4. All of these

[Option ID = 42521]

Correct Answer :-

- uneven surface temperature

[Option ID = 42520]

15) Which of the following shows the correct order of soil texture from larger to smaller diameters?

[Question ID = 10632]

1. Gravel, sand, clay, and silt [Option ID = 42522]
2. Gravel, sand, silt, and clay [Option ID = 42523]
3. Gravel, silt, sand, and clay [Option ID = 42524]
4. Sand, gravel, silt, and clay [Option ID = 42525]

Correct Answer :-

- Gravel, sand, silt, and clay [Option ID = 42523]

16) All members in which of the following groups have the greatest number of characteristics in common?

[Question ID = 10633]

1. Class [Option ID = 42526]
2. Genus [Option ID = 42527]
3. Phylum [Option ID = 42528]
4. Species [Option ID = 42529]

Correct Answer :-

- Species [Option ID = 42529]

17) What does the system of binomial nomenclature that assigns a unique name to each organism describe?

[Question ID = 10634]

1. Family and species [Option ID = 42530]
2. Genus and family [Option ID = 42531]
3. Order and family [Option ID = 42532]
4. Species and genus [Option ID = 42533]

Correct Answer :-

- Species and genus [Option ID = 42533]

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?

[Question ID = 10635]

1. Analogous [Option ID = 42534]
2. Homologous [Option ID = 42535]
3. Phylogenetic [Option ID = 42536]
4. Taxonomic [Option ID = 42537]

Correct Answer :-

- Analogous [Option ID = 42534]

19) Which of the following animal phyla is most likely to leave fossils?

[Question ID = 10636]

1. Annelida [Option ID = 42538]
2. Cnidaria [Option ID = 42539]
3. Chordata [Option ID = 42540]
4. Nematoda [Option ID = 42541]

Correct Answer :-

- Chordata [Option ID = 42540]

20) Which of the following systems is active under stress?

[Question ID = 10637]

1. Complete autonomic nervous system [Option ID = 42542]
2. Parasympathetic nervous system [Option ID = 42543]
3. Sympathetic nervous system [Option ID = 42544]
4. Somatic nervous system [Option ID = 42545]

Correct Answer :-

- Sympathetic nervous system [Option ID = 42544]

21) Migration of fish from fresh water to marine water for reproduction is known as:

[Question ID = 10638]

1. Anadromous [Option ID = 42546]

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) Marine
[Option ID = 42658]
- 2) Nonmarine
[Option ID = 42659]
- 3) Both (1) and (2)
[Option ID = 42660]
- 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. CH₄, H₂S, CO₂, NH₄ [Option ID = 42670]
2. NH₄, CO, SO₂, CH₄ [Option ID = 42671]
3. NH₄, H₂S, CO [Option ID = 42672]
4. SO₂ and CH₄ [Option ID = 42673]

Correct Answer :-

- CH₄, H₂S, CO₂, NH₄ [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]

4. 600 ppm
[Option ID = 42697]

Correct Answer :-

- 500 ppm
[Option ID = 42696]

59) The organic component of a water supply can be best assessed by measuring:

[Question ID = 10676]

1. BOD [Option ID = 42698]
2. COD [Option ID = 42699]
3. DO [Option ID = 42700]
4. TOC [Option ID = 42701]

Correct Answer :-

- TOC [Option ID = 42701]

60) _____ is a superbug that is credited with the ability to clean up oil spills.

[Question ID = 10677]

1. *Bacillus subtilis*
[Option ID = 42702]
2. *Bacillus denitrificans*
[Option ID = 42703]
3. *Pseudomonas putida*
[Option ID = 42704]
4. *Rhizobium olivera*
[Option ID = 42705]

Correct Answer :-

- *Pseudomonas putida*
[Option ID = 42704]

61) Hospitals employ red coloured containers to dump_____ .

[Question ID = 10678]

1. discarded laboratory cultures [Option ID = 42706]
2. discarded sharps [Option ID = 42707]
3. human anatomical waste [Option ID = 42708]
4. housekeeping waste [Option ID = 42709]

Correct Answer :-

- discarded laboratory cultures [Option ID = 42706]

62) _____ facilitates cellulose degradation in termite gut.

[Question ID = 10679]

1. *Citrobacter*
[Option ID = 42710]
2. *Enterococcus*
[Option ID = 42711]
3. *Enterobacter*
[Option ID = 42712]
4. *Trichonympha*
[Option ID = 42713]

Correct Answer :-

- *Trichonympha*
[Option ID = 42713]

63) Baseline studies in an Environmental Impact Assessment refer to:

[Question ID = 10680]

1. identification of the best available project options [Option ID = 42714]
2. the anthropogenic profile of the project area [Option ID = 42715]
3. the floral and faunal status of the proposed project area [Option ID = 42716]
4. the prevalent environmental setting of the proposed project area [Option ID = 42717]

Correct Answer :-

- the prevalent environmental setting of the proposed project area [Option ID = 42717]

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 :-

- Endogeic [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

[Option ID = 42796]

4. None of these

[Option ID = 42797]

Correct Answer :-

- Founder's Effect

[Option ID = 42794]

84) Echolocation in Bats and Cetaceans (Whales and Dolphins) is an example of which of the following?

[Question ID = 10701]

1. Convergent Evolution [Option ID = 42798]
2. Divergent Evolution [Option ID = 42799]
3. Homeostasis [Option ID = 42800]
4. Parallel Evolution [Option ID = 42801]

Correct Answer :-

- Convergent Evolution [Option ID = 42798]

85) Which of the following is *not* a pesticide?

[Question ID = 10702]

1. Dieldrin

[Option ID = 42802]

2. Dichlorodiphenyldichloroethane (DDD)

[Option ID = 42803]

3. Lindane

[Option ID = 42804]

4. Phosgene

[Option ID = 42805]

Correct Answer :-

- Phosgene

[Option ID = 42805]

86) Which of the following atmospheric phenomenon is responsible for the blue colour of the sky during clear sunny days?

[Question ID = 10703]

1. Electromagnetic scattering [Option ID = 42806]
2. Geometric scattering [Option ID = 42807]
3. Mie scattering [Option ID = 42808]
4. Rayleigh scattering [Option ID = 42809]

Correct Answer :-

- Rayleigh scattering [Option ID = 42809]

87) Blue baby syndrome is caused by contamination from which of the following chemical substances?

[Question ID = 10704]

1. Ammonia [Option ID = 42810]
2. Fluoride [Option ID = 42811]
3. Mercury [Option ID = 42812]
4. Nitrates [Option ID = 42813]

Correct Answer :-

- Nitrates [Option ID = 42813]

88) Ant bites are rich in which of the following acids?

[Question ID = 10705]

1. Formic acid [Option ID = 42814]
2. Hydrochloric acid [Option ID = 42815]
3. Tartaric acid [Option ID = 42816]
4. Trifluoromethanesulfonic acid [Option ID = 42817]

Correct Answer :-

- Formic acid [Option ID = 42814]

89) Which of the following is *not* a food preservation technique?

[Question ID = 10706]

1. Curing

[Option ID = 42818]

2. Jellying

[Option ID = 42819]

3. Irradiation

[Option ID = 42820]

4. Oxygenation

[Option ID = 42821]

Correct Answer :-

- Oxygenation

[Option ID = 42821]

90) Which of the following compounds are generally responsible for the phenomenon of Bioluminescence?

[Question ID = 10707]

1. Cytokinin [Option ID = 42822]
2. Lactiferin [Option ID = 42823]
3. Luciferin [Option ID = 42824]
4. Somatostatin [Option ID = 42825]

Correct Answer :-

- Luciferin [Option ID = 42824]

91) Which of the following scientists discovered Jumping Genes?

[Question ID = 10708]

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]

Correct Answer :-

- Barbara McClintock [Option ID = 42827]

92) Which type of seed dispersal primarily occurs during the night?

[Question ID = 10709]

1. Anemochory [Option ID = 42830]
2. Chiropterochory [Option ID = 42831]
3. Malacochory [Option ID = 42832]
4. Ornithochory [Option ID = 42833]

Correct Answer :-

- Chiropterochory [Option ID = 42831]

93) As per the 'latitudinal gradient of species diversity', the species richness or biodiversity:

[Question ID = 10710]

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]

Correct Answer :-

- increases from the poles to the tropics [Option ID = 42834]

94) Which among the following is a criterion for a region to be considered as Biodiversity Hotspot?

[Question ID = 10711]

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]

Correct Answer :-

- It must have at least 1500 vascular plants as endemics [Option ID = 42838]

95) Who proposed the concept of Biodiversity Hotspots?

[Question ID = 10712]

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]

Correct Answer :-

- Norman Myers [Option ID = 42844]

96) The branch of biology that specifically deals with the study of amphibians is known as:

[Question ID = 10713]

1. Batrachology [Option ID = 42846]

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]