

IASbaba- All Environment Questions

1. Consider the following statements

1. Sun is the only source of energy for all ecosystems on Earth
2. Of the incident solar radiation more than 50 per cent of it is **Photosynthetically Active Radiation (PAR)**

Select the correct code

1. Only 1
2. Only 2
3. Both
4. None

2. Arrange the following in increasing order of 'Productivity in Ecosystem' (metric tonne per year)

1. Woodland and shrubland < tropical rain forest < Continental shelf < Open sea
2. Continental shelf < Woodland and shrubland < Tropical rain forest < Open ocean
3. Tropical rain forest < Continental shelf < Woodland and shrubland < Open ocean
4. Woodland and shrubland < Continental shelf < Tropical rain forest < Open ocean

3. Consider the following statements about ecological pyramids

1. Grassland and forest ecosystem have similar Pyramid of Numbers.
2. Pyramid of Biomass is the most accurate among three ecological pyramids-Number, Biomass and Energy.
3. Pyramid of Energy is always upright in nature irrespective of type of ecosystem.

Select the correct code

1. 1 and 2
2. 1, 2 and 3
3. Only 2
4. Only 3

4. Which among the following can effectively be examples of 'Secondary Succession'?

1. Formation of a new Island after volcanic eruption
2. The renewal of a forest after a fire
3. A flooded land
4. The renewal of a crop after harvesting

Select the correct option

1. 1, 2 and 3
2. 2, 3 and 4
3. 1, 3 and 4
4. All

5. If the concentration of oxygen gets doubled in the atmosphere, what can be the possible effects of the same?

1. We will die young
2. Most insects will grow bigger in size
3. We will be less prone to sickness
4. Our Vehicle will give better mileage

Select the correct option

1. 1, 2 and 3
2. 1, 3 and 4
3. 1, 2, 3 and 4
4. 2, 3 and 4

6. The ecological footprint is a measure of human demand on the Earth's ecosystems. It measures-

1. How much of the biological capacity of the planet is demanded by a given human activity or population
2. Ecological Footprints is calculated for overall activity of a nation or population and activities such as industrialization etc.
3. The disadvantage of Ecological Footprint is that it cannot be calculated for individual people or area.

Select the wrong statement/s

1. 1 and 2
2. Only 2
3. 1 and 3
4. Only 3

7. Which of the following describes the relationship of Mutualism?

1. Pollination
2. Rhizobium
3. Human and Bacteria
4. Zoochory

Select the correct code-

1. 1, 2 and 3
2. 2, 3 and 4
3. 2 and 4
4. All

8. Bioluminescence is the production and emission of light by a living organism. Which of the following exhibit the phenomenon of Bioluminescence?

1. Krill
2. Fungi
3. Bacteria
4. Winged beetles

5. Octopus

Select the correct code/s

1. 1, 2, 4 and 5
2. 1, 3, 4 and 5
3. 2, 3, 4 and 4
4. All

9. 'A transition area between two adjacent but different landscape patches' is called as

1. Ecozone
2. Ecoregion
3. Ecotone
4. Ethology

10. If you travel through the villages and interior of Central India and Northern India, the traditional Water Harvesting System to be witnessed will be-

1. Zing
2. Johad
3. Kunds
4. Surangam
5. Kere

Select the correct codes

1. 1, 2, and 3
2. 1, 3, 4 and 5
3. 2, 4 and 5
4. All

11. Consider the following statements

1. The percentage of Open forest in India is more than Moderately Dense forest
2. Area covered under Plantation is more than very Dense forest
3. Shifting Cultivation has increased over the years and shares more land use as compared to Non-Forestry Plantation.

Select the correct code-

1. 1, 2 and 3
2. 2 and 3
3. 1 and 3
4. None

12. Soil erosion is one of the major reasons for depleting forest covers of India. Consider the following statements w.r.t this-

1. Excessive erosion of bottom soil reduces both the fertility and water holding capacity of the soil.
2. Major part of Indian forest cover has undergone heavy soil erosion amounting almost 30% of Recorded Forest Area.

Select the correct code-

1. Only 1
2. Only 2
3. Both
4. None

13. Which of the following is/are artificial methods of 'Forest Regeneration'?

1. Taungya System
2. Silviculture System

Select the correct code-

1. Only 1
2. Only 2
3. Both
4. None

14. Consider the statements regarding 'Coral bleaching'

1. It is the loss of zooxanthellae through either expulsion or loss of algal pigmentation.
2. It happens due to increase in ocean temperature only
3. All the corals undergoing bleaching are dead corals

Select the correct code-

1. 1 and 3
2. Only 2
3. Only 1
4. 2 and 3

15. Rhodiola has been a significant herb of research interests among the scientist all over the world. Consider the statements w.r.t Rhodiola

1. It has immunomodulatory, adaptogenic and radio-protecting abilities.
2. The root part is used by local people as vegetables
3. It is found in cold regions of the world

Which of the following statements is /are correct

1. 1, 2, and 3
2. 1 and 2
3. Only 3
4. 1 and 3

16 Consider the statement below

Germany is investing in an emission reduction project in India as an alternative to reducing emissions domestically. It will be called as-

1. Joint Implementation
2. Clean Development Mechanism
3. Certified Emission Reduction Credits
4. None

17. Identify the correct statement

1. The Bio-safety protocol deals with genetically modified organism
2. The Bio-safety protocol is also called as Nagoya Protocol
3. Both Nagoya and Cartagena Protocol deals with genetic resources

Select the correct code

1. 1 and 2
2. 2 and 3
3. 1, 2 and 3
4. 1 and 3

18. The formation of ozone hole in the Antarctica region has been a cause of concern. What could be the reason for the formation of this hole?

1. Presence of prominent tropospheric turbulence and inflow of chlorofluorocarbons
2. Presence of prominent polar front and stratospheric clouds and inflow of chlorofluorocarbons.
3. Absence of polar front and stratospheric clouds and inflow of chlorofluorocarbons.
4. Increased temperature of polar region due to global warming

19. Consider the following statements regarding Bio-asphalt

1. It is eco-friendly to use bio-asphalt for surfacing of the roads
2. Unlike traditional asphalts, bio-asphalts is not based on fossil fuels.
3. Bio-asphalt can be made from organic waste materials.
4. Bio-asphalt can be made from non-renewable resources

Select the correct code-

1. 1, 3 and 4
2. 2, 3 and 4
3. 1, 2 and 3
4. All

20. Which bacterial strain, developed from natural isolates by genetic manipulations, can be used for treating oil spills?

1. Agrobacterium
2. Clostridium
3. Nitrosomonas
4. Pseudomonas

21. Consider the statements about adaptation in the animals leading a subterranean mode of life:

1. Digging organs for food
2. Special body contour to increase metabolism
3. Neck and pinnae are reduced to avoid obstruction in quick movement through the holes

Select the correct code:

1. 1 Only
2. 2 Only
3. 1 and 2 Only
4. 1 and 3 Only

22. Consider the statements regarding desert adaptation

1. Hygroscopic skin to absorb moisture
2. Large pinnae to function as efficient heat radiators
3. Impermeable skin

Select the correct code:

1. 1 Only
2. 1 and 2 Only
3. 1 and 3 Only
4. All of the above

23. Consider the statements- Acid rain results into

1. Deterioration of Forests
2. Destruction of Automotive coating.
3. Reduction of Photosynthetic rate
4. Increase methane emission from wetlands.

Select the correct code:

1. 1 and 2 Only
2. 1, 2 and 3 Only
3. 1, 3 and 4 Only
4. All of the above

24. Choose the right one about oil spill

1. It reduces Photosynthetic activities in water bodies.
2. It results into killing of birds and mammals that die of hypothermia
3. Food web of water bodies gets even more complex

Select the correct code:

1. 1 Only
2. 1, 2 Only
3. 1, 3 Only
4. All of the above

25. Out of initiatives given below which will prove to be factors having positive impact on menace of global warming.

1. Eastern Dedicated Freight Corridor (DFC) Project
2. Digital India.
3. Campaign stressing on use of LED bulbs
4. "Give it up" campaign.

Select the correct code:

1. 1 and 2 Only
1. 1, 2 and 3 Only
2. 1, 3 and 4 Only
3. All of the above

26. What are the factors for extinction of wildlife throughout the world

1. Alteration of habitat.
2. Indroduction of foreign species.
3. Control of pests and predators.
4. Captive breeding

Select the correct code:

1. 1 and 2 Only
2. 1, 2 and 3 Only
3. 1, 3 and 4 Only
4. All of the above

27. Consider the statements:

1. Elephant Information Network (EIN) has enabled human-elephant coexistence in southern India
2. Recently, Dr. Pramod Patil was awarded for developing Elephant Information Network (EIN)

Select the correct code:

1. 1 Only
2. 2 Only
3. Both
4. None

28. Read the different terms given below and select one or more that sequestrate the atmospheric green house gases:

1. Black Carbon
2. Brown Carbon
3. Blue Carbon
4. Green Carbon

Select the correct code:

1. 4 Only
2. 2 and 4 Only
3. 3 and 4
4. 1, 2 and 3

29. Addition of iron particle to ocean will result into:

1. Increase in Marine Biological Productivity.
2. Increase in carbon dioxide in atmosphere by degassing.
3. Decrease in Sea Surface temperature.

Select the correct code:

1. 1 and 3 Only
2. 2 and 3 Only
3. All of the above
4. 3 only

30. What is/are implicitly/explicitly related to wetland management?

1. Convention on biological diversity (CBD).
2. Montreux Record.
3. Hyogo framework of action.

Select the correct code:

1. 1 and 3 Only
2. 2 and 3 Only
3. All of the above
4. 1 only

31. Indian Green Building Council (IGBC) New Green Buildings rating system addresses green features under certain categories. What are they?

1. Site selection and planning
2. Innovation and Development
3. Water Conservation
4. Energy Efficiency

Select the correct order

1. 1 and 2
2. 2 and 3
3. 1, 3 and 4
4. All

32. Canary birds are used as early warning system in coal mines. What are the reasons for this?

1. They are able to detect the presence of toxic gases like carbon monoxide.
2. Their breathing rate is slow as compared to human that helps them to reach to the depth of mines
3. They have high metabolism

Select the correct code

1. Only 1
2. 2 and 3
3. 1 and 3
4. All

33. Consider the following with respect to Western Ghat and rainfall pattern along it

1. Karnataka receives more rainfall than Kerala and Maharashtra because of steep slopes and continuous Mountains
2. The mountain topography in Karnataka is broader than the narrow topography of the Ghats in Maharashtra and Kerala.

Select the incorrect statements

1. Only 1
2. Only 2
3. Both
4. None

34. Among the following that has major content of carbon

1. Soil
2. Forests
3. Ocean
4. Atmosphere

35. Consider the statements regarding Biosequestration

1. Biosequestration is an artificial process that captures and stores the atmospheric greenhouse gas carbon dioxide by biological processes.
2. Biosequestration is a natural process responsible for the formation of the extensive coal and oil deposits which are now being burned.

Select the correct code

1. Only 1
2. Only 2
3. Both
4. None

36. Floods in Punjab-Haryana region are mainly result of

1. Improper drainage
2. High density of rivers/streams
3. Salt encrustation
4. Very heavy rainfall

Select the correct code:

1. 1, 3 and 4 Only
2. 1, 2, and 4 Only
3. 1, 2 and 3 Only
4. All of the above

37. Consider the statements regarding protective adaptation.

1. Cryptic coloration
2. Resemblance coloration
3. Warning coloration

Select the correct code:

1. 1 and 2 Only
2. 1 and 3 Only
3. 2 and 3 Only
4. All of the above

38. Humus in soil is useful because it

1. Increases water retention in soil
2. Improves soil structure
3. Sets ground for capillary mechanism to enrich top layer with minerals from beneath.

Select the correct code:

1. 1 Only
2. 2 Only
3. 1 and 2 Only
4. 1 and 3 Only

39. Consider the areas focused in recently released World Bank's report "Building Resilience for Sustainable Development of the Sundarban"

1. Health issues of human settlements there.
2. Destruction of ecosystem services
3. Coastal mining.

Select the correct code:

1. 1 Only
2. 2 Only
3. 1 and 2 Only
4. 1 and 3 Only

40. Consider the statements about Soil health card scheme.

1. It will indirectly result into increase level of nutrient loading in local streams.
2. It would reduce the problem of temporary inundation.
3. It has been rolled out to check the excess use of fertilizers.

Select the correct code:

1. 1 and 2 Only
2. 1 and 3 Only
3. 2 and 3 Only
4. 3 Only

41. Green economy as a concept embraces

1. Carbon free economy
2. Resource efficient economy
3. Socially inclusive economy

Select the correct code:

1. 1 Only
2. 2 Only
3. 2 and 3 Only
4. All of the above

42. Consider the statements regarding Nano pollution:

1. Living organisms may not have appropriate means to deal with Nano wastes as Nano-particles don't appear in nature
2. Due to their size, they can penetrate the animal cells but not plant cells as they have mechanism of Nano particles filtration.
3. Nano-particles do not have any impact on human immune system.

Select the correct code:

1. 1 Only
2. 2 Only
3. 1 and 2 Only
4. None

43. What do you think would help in securing the nutrition security for impoverished masses of India?

1. By emphasizing over Bio fortification.
2. By including coarse grains in PDS system.
3. By creating enabling environment for cooperative type of functioning.
4. Increasing cultivation cover for rice and wheat.
5. By increasing processing capacities in India.

Select the correct code:

1. 1, 2, 3 and 5 Only
2. 1, 2, 3, and 4 Only
3. 1 and 2 Only
4. All of the above

44. Consider the statements about aquatic adaptation:

1. Skin of most aquatic forms is rich in mucous glands.
2. They have a fatty layer below the skin for insulating the body.
3. The hollow outgrowth of the alimentary canal functions as an organ of flotation.

Select the correct code:

1. 1 Only
2. 2 Only
3. 1 and 2 Only
4. All of the above

45. Consider the statements regarding global energy subsidies

1. U.S.A is the largest spender on energy subsidies while china stands at second place.
2. Energy subsidies exceed the estimated public health spending for the entire globe.

Select the correct code:

1. 1 Only
2. 2 Only
3. BOTH
4. NONE

46. Namami gange programme would implicitly strengthen the Indian compliance to

1. Convention of biological diversity.
2. Ramsar convention.
3. Convention on the Conservation of Migratory Species of Wild Animals (CMS)

Select the correct code:

1. 1 Only
2. 2 Only
3. All of the above
4. 1 and 3 Only

47. Match the following

1. Champions of the Earth
2. Clean Technology
3. Environmental Activists

- Rajiv Gandhi Environment Award
- Goldman Environment Prize
- United Nations Environmental Program

Select the correct code

1. 1 and 3
2. 2 and 3
3. All
4. None

48. Consider the following species

1. Whales
2. Sharks
3. Polar Bears
4. Gazelles

Which of the following species have been recently given protection under UN Conservation of Migratory Species of Wild Animals (CMS)?

1. 1, 2 and 3
2. 2, 3 and 4
3. 1, 2, 3 and 4
4. 1, 2 and 4

49. Consider the following

1. Mushroom
2. Cocoa
3. Flowers
4. Root and tuber crops

Which of the above is part of horticulture?

1. 1, 3 and 4
2. 2, 3 and 4
3. 1, 2 and 3
4. All

50. Consider the following regarding fisheries production

1. India is the largest producer of fish in the world
2. India is the second largest producer of fresh water fish in the world

Select the wrong statement/s

1. Only 1
2. Only 2
3. Both
4. None

51. Horticulture includes

1. Viticulture
2. Floriculture
3. Oenology
4. Pomology

Select the correct code

1. 1, 3 and 4
2. 2, 3 and 4
3. 1, 2 and 4
4. All

52. Consider the following with reference to Biomass burning and its effect

1. **Aerosols** have been found to rise and cross the entire range of the Himalayas
2. Dicarboxylic acids present in the aerosols serve as a unique fingerprint in identifying the source of pollution.
3. The direct heat generated by burning biomass is significant, and contributes to cloud evaporation by increasing relative humidity.

Select the wrong statements

1. 1 and 3
2. Only 3
3. Only 1
4. None

53. The water pollution level in India is rising and has doubled in recent years. What can be possible reasons for surface water pollution in India?

1. 70-80% of water pollution by volume is from rivers
2. Gaps in the treatment of sewage water and water treatment plants
3. Septic tanks and pit latrines have become a major contributor to groundwater and surface water pollution

Select the wrong statements

1. 1 and 2
2. 2 and 3
3. Only 1
4. Only 3

54. Consider the following statements

1. Operation Tiger, an Indian initiative due to which the number of Tiger's have recently shown an upward trend.
2. The conventional classification of Tiger's are done based on nine sub-species

Select the correct code

1. Only 1
2. Only 2
3. Both
4. None

55. Which of the following is the largest Aquifer System of India?

1. Alluvium Aquifer System
2. Basalt Aquifer System
3. Gneiss Aquifer System
4. Sandstone Aquifer System

56. Consider the following statements

1. It is a rare species of porpoise
2. It is endemic to the northern part of the Gulf of California.
3. A study released recently warns that their population has drastically fallen down to just 97.

It is-

1. Vaquita
2. Killer whale
3. Rough-toothed dolphin
4. Gray whale

57. Consider the following

1. It account for over 90% of the global meridional (north-south) water vapor transport
2. It consist of narrow bands of enhanced water vapor transport
3. They also are the major cause of extreme precipitation events which cause severe flooding in many mid-latitude, westerly coastal regions of the world.

Select the term associated with above statements

1. Atmospheric Gases
2. Atmospheric Rivers
3. Atmospheric Circulations

4. Atmospheric Precipitation

58. Environment protection is an inherent part of Indian Constitution. Which of the following implicitly or explicitly mentions about it?

1. Fundamental Duties
2. DPSP
3. Preamble
4. Fundamental rights

Select the correct codes

1. 1, 3 and 4
2. 1, 2 and 4
3. 2 and 4
4. 1, 2, 3 and 4

59. Flexible mechanisms under Kyoto Protocol includes

1. Carbon Sink
2. Clean Development Mechanism
3. Joint Implementation
4. Emission Trading

Select the correct code

1. 1, 2 and 3
2. 2, 3 and 4
3. 1, 2, 3 and 4
4. 1, 3 and 4

60. Consider the following

1. Durban Declaration and Program of Action
2. Cancun Agreement
3. Copenhagen Accord
4. Bali Action Plan

Which of the above includes commitments to reduce greenhouse gas emissions?

1. 1, 2 and 3
2. 2, 3 and 4
3. 2 and 3

4. All

61. Persistent Organic Pollutant (POPs) are organic compounds that are resistant to environmental degradation through chemical, biological and photolytic processes. Which of the following International measures includes POPs?

1. Stockholm Convention
2. Aarhus Protocol
3. Convention on Long-Range Transboundary Air Pollution

Select the correct code

1. Only 1
2. 1 and 2
3. 2 and 3
4. 1, 2 and 3

62. Recently India launched its first Air Quality Index. What are the chief pollutants under AQI?

1. Ozone
2. Sea Spray
3. Sulphur dioxide
4. Nitrogen dioxide
5. Elementary Carbon

Select the correct code

1. 1, 3, 4 and 5
2. 2, 3, 4 and 5
3. 1, 2, 3, 4 and 5
4. 1, 3 and 4

63. Addition of which of the following has harmful effect in the process of filtration of water?

1. Silver
2. Titanium Oxide
3. Carbon nanotube

Select the correct code

1. 1 and 2
2. Only 2
3. 1, 2 and 3
4. None

64. Which of the following are 'Raptors' to be found in India?

1. Forest Owlets
2. Red headed Vulture
3. Long Tailed Macaque
4. Amur Falcons

Select the correct code

1. 1 and 3
2. 1 and 2
3. 2, 3 and 4
4. 1, 2 and 4

65. Consider the following statements

1. It is a tropical grass which is considered a sacred material in Vedic scriptures and is said to purify the offerings during such rituals.
2. It has been identified as an eco-friendly food preservative.
3. It also acts as disinfectant

Select the correct term for above statements

1. Darbha grass
2. Bamboo grass
3. Bermuda grass
4. Lemon grass

66. Fogs are formed due to

1. Conduction
2. Radiation
3. Mixing of warm and cold air masses

Select the correct codes from above

1. 1 and 2
2. 2 and 3
3. Only 3
4. 1, 2 and 3

67. Which of the following are associated with natural processes of Nitrogen Fixation?

1. Lightening
2. Cloud Bursting
3. Bacteria
4. Blue-green Algae
5. Fungi

Select the correct codes

1. 1, 2, 3 and 4
2. 3, 4 and 5
3. 1, 3 and 4
4. 1, 2, 3, 4 and 5

68. Consider the following

1. Sound waves
2. Light waves
3. Electromagnetic waves

Temperature inversion will affect?

1. Only 1
2. 1 and 2
3. 2 and 3
4. 1, 2 and 3

69. Tropospheric Ozone consists of

1. Sulphur Dioxide
2. Methane
3. Nitrogen Oxides
4. Volatile Organic Compounds
5. Carbon Monoxide

Choose the correct options

1. 1, 2, 4 and 5
2. 2, 3, 4 and 5
3. 1, 2, 3 and 4
4. 1, 2, 3, 4 and 5

70. Consider the following statements regarding ozone depletion

1. Polar Stratospheric Clouds inhibits ozone depletion
2. Ozone depletion will affect human body by enhancing the chances of skin cancer and reduced level of Vitamin D in the body.
3. Montreal Protocol and Vienna Convention are related to Ozone Depleting Substances

Select the wrong statements

1. Only 2
2. 1 and 3
3. 1 and 2
4. Only 1

71. Consider the following

1. Photochemical Smog
2. Acid Rains
3. Death of vegetation
4. Loss of biodiversity in aquatic ecosystem
5. Damage to buildings

Sulphur dioxide contributes to all of the problems mentioned above except

1. Only 1
2. 1 and 3
3. Only 3
4. 3 and 4

72. How do CFCs reduce the concentration of ozone in the atmosphere?

1. Radiation caused CFCs to release atoms that converts ozone to oxygen
2. CFCs splits into troposphere and combine with carbon dioxide to form oxygen
3. CFCs splits into the troposphere and oxidise, preventing the formation of ozone
4. CFCs combine with ozone to produce oxidised molecules

73. Mercury is particularly hazardous to human health because

1. It bioaccumulates high up the food chain.
2. As a heavy metal, it can cause serious impact injury.
3. It is light and volatile, and so is widely dispersed through the environment by wind.
4. As a pure metal it is very soluble in water, hence easily absorbed through drinking water.

74. A high Biological Oxygen Demand indicates

1. Low level of microbial pollution
2. High level of microbial pollution
3. Pure water
4. Absence of microbial action

75. A lichen is best characterized as a symbiosis between

1. Bacteria and Fungus
2. An algae and Bacteria
3. Fungus and an algae
4. An algae and moss

76. Exploration of Shale gas in India is fraught by several issues. Consider the statements regarding this

1. It will severely affect ground water
2. It will give rise to release of green house gases
3. Hydraulic fracturing causes millions of very small and localized seismic events when the fractures are actually produced in the shale

Select the correct options

1. 1, 2 and 3
2. 2 and 3
3. 1 and 3
4. Only 3

77. Hydrogen Fuel cells are emerging as fuel of the future due its potential to address energy crisis. Consider the statements regarding this

1. Hydrogen fuel cells converts chemical energy into electrical energy
2. They are more environment friendly as compared to other fuels like Coal and Natural gas etc.
3. The only concern is release of CO₂ and excess heat after the reaction.

Select the correct codes

1. Only 3
2. 1 and 2
3. 2 and 3
4. 1, 2 and 3

78. Consider the following regarding Coal Gasification

1. Coal gasification produces syngas
2. Coal gasification can be used for making ammonia and methanol
3. Coal gasification produces less carbon dioxide than traditional coal plants

Select the correct options

1. 1 and 2
2. 2 and 3
3. 1 and 3
4. 1, 2 and 3

79. Consider the following

1. Carbon Dioxide
2. Methane
3. Hydrogen
4. Carbon Monoxide
5. Nitrogen
6. Sulphur Dioxide

Which of the above are constituent of SYNGAS?

1. 1, 2, 3 and 4
2. 1, 2, 3, 4 and 5
3. 3, 4, 5 and 6
4. 2, 3, 4, 5 and 6

80. Consider the following regarding Tiger Reserves in India

1. Karnataka is having maximum number of Tiger Reserves in India
2. Recently awarded Bor Wildlife Sanctuary as Tiger Reserve is in Karnataka
3. Rajaji National Park is a Tiger Reserve

Select the correct options

1. 1 and 3
2. Only 1
3. 1 and 2
4. Only 3

81. World's only Floating National Park is located in

1. India
2. Indonesia
3. Brazil
4. USA

82. Consider the following statements

1. India has more National Parks than Wildlife Sanctuaries
2. Grazing of livestock can be permitted inside a Sanctuary but not inside a National Park.
3. A National Park can be upgraded to Wildlife Sanctuaries for providing more protection to Wildlife

Select the correct codes

1. 1, 2 and 3
2. 1 and 2
3. Only 3
4. Only 2

83. What is the natural phenomenon of nesting of hundreds of thousands of turtles called?

1. Alibaba
2. Akkibada
3. Arribada
4. Arriback

84. Consider the following statements

1. Coral triangle is an initiative of UNEP to protect Marine Ecosystem
2. It is an area spanning Indonesia, Malaysia, the Philippines, Papua New Guinea, Thailand and Australia
3. The primary criteria used to delineate the Coral Triangle were High species biodiversity Oceanography.

Select the wrong statements

1. Only 3
2. 1 and 2
3. 1, 2 and 3
4. None

85. If you are travelling through Eastern Himalayas, which of the following you will encounter?

1. Golden Langur
2. Takin
3. Black Bear

Select the correct code

1. 1 and 2
2. 2 and 3
3. Only 2
4. 1, 2 and 3

86. Consider the following statements

1. The leaves of these forest falls in autumn season
2. They are found in Temperate Zone
3. These forests in China and Europe are basically man made

What is the name of this forest?

1. Coniferous Forest
2. Deciduous Forest
3. Tropical Rain Forest
4. None

87. Red Sanders has been in news recently because of illegal trade. Consider the following w.r.t it

1. It is endemic to North Eastern Ghats mountain range of South India
2. Its aromatic woods are of high demand in China and Middle East countries
3. It is an endangered species as listed by IUCN
4. It is used in Shipbuilding and manufacturing of the Ayurvedic medicines.

Which of the above are NOT correct?

1. 1, 2, 3 and 4
2. 2 and 4
3. 1 and 2
4. 1, 2 and 3

88. Consider the following statements based on UN report on E-waste

1. The bulk of global e-waste constitutes from mobile phones, calculators, personal computers, printers, and small information technology equipment.
2. The lowest amount of e-waste per inhabitant was generated in South Asian countries

Select the correct code/s

1. Only 1
2. Only 2
3. Both
4. None

89. Consider the following statements

1. It is world's most problematic aquatic weed
2. It is also called Terror of Bengal

Above statements fits for?

1. *Eichhornia*
2. *Azolla*
3. *Wolffia*
4. *Trapa*

90. Consider the following statements

1. The Biological Oxygen Demand (BOD) is the measure of organic matter present in the water.
2. Greater the BOD, lesser is the polluting potential.
3. Microbes in sewage treatment plants increases the BOD of the effluent

Which of the above are NOT correct?

1. 1 and 2
2. 2 and 3
3. Only 3
4. Only 2

91. Match the following list of bioactive substances and their roles:

Bioactive Substance

Role

- | | |
|------------------|---|
| 1. Statin | i. Removal of oil stains |
| 2. Cyclosporin A | ii. Removal of clots from blood vessels |
| 3. Streptokinase | iii. Lowering of blood cholesterol |
| 4. Lipase | iv. Immuno-suppressive agent |

Choose the correct match:

1. 1-iii, 2-iv, 3-ii, 4-i
2. 1-ii, 2-iv, 3-iii, 4-i
3. 1-i, 2-ii, 3-iii, 4-iv
4. 1-iv, 2-iii, 3-ii, 4-i

92. Consider the following

1. Azotobacter
2. Pseudomonas
3. Nostoc
4. Anabaena
5. Thiobacillus

Which of the above is NOT a nitrogen fixing organism?

1. 2 and 5
2. 1, 2, and 5
3. 2, 4 and 5
4. 1, 3, 4 and 5

93. Methanogens are common in Wetlands and are responsible for marsh gas. Consider the following w.r.t it

1. They are also found in ruminants of animals but not in human
2. They play significant role in aerobic wastewater treatment
3. They produce oxygen, carbon dioxide, hydrogen sulphide and methane

Choose the correct options

1. 1, 2 and 3
2. 1 and 2
3. 2 and 3
4. None

94. Match the items in Column 'A' and Column 'B' and choose correct answer.

Column A

1. Lady bird
2. Mycorrhiza
3. Biological control
4. Biogas

Column B

- (i) Methano bacterium
- (ii) Trichoderma
- (iii) Aphids
- (iv) Glomus

The correct answer is:

1. 1-ii, 2- iv, 3- iii, 4- i
2. 1-iii, 2- iv, 3- ii, 4- i
3. 1-iv, 2- i, 3- ii, 4- iii
4. 1-iii, 2- ii, 3- i, 4- iv

95. Use of certain chemicals and radiation to change the base sequence of genes of crop plant is termed as

1. Mutation breeding
2. Transgenic mechanism
3. Recombinant DNA technology
4. Gene Therapy

96. If your COW is producing average MILK as compared to the cow of other breed, the best method to increase its efficiency would be?

1. In-breeding
2. Out-breeding
3. Out-crossing
4. None

97. Which one of the following is not a fungal disease?

1. Rust of wheat
2. Smut of Bajra
3. Black rot of crucifers
4. Red rot of sugarcane

98. Consider the statements

1. Dinitrogen and dioxygen are main constituents of air but do not react at normal temperature
2. Nitrous oxide does not contribute to Green House Gases but excess of nitrogen dioxide can retard the rate of photosynthesis.

Select the WRONG statement/s

1. Only 1
2. Only 2
3. Both
4. None

99. Match the following

Column 1

1. Oxides of Sulphur
2. Nitrogen dioxide
3. Carbon Dioxide
4. Nitrate in drinking water
5. Lead

Column 2

- i. Global Warming
- ii. Damage to Kidney
- iii. Blue Baby Syndrome
- iv. Respiratory diseases
- v. Red haze in traffic

Select the correct code

1. 1-iv, 2-v, 3-i, 4-iii, 5-ii
2. 1-v, 2-iv, 3-i, 4-ii, 5-iii
3. 1-v, 2-ii, 3-i, 4-iv, 5-iii
4. 1-iii, 2-iv, 3-i, 4-v, 5-ii

100. 'Thermal pollution is the dumping of heat into ecological systems like rivers, lakes, ponds, ocean etc. which degrades the water quality'. Consider the following statements regarding the same.

1. It will decrease the metabolic activities of aquatic animals
2. Reproduction among aquatic animals will increase.
3. Bacterial activity will be limited in the water system
4. High temperature will increase the dispersion of oxygen into deeper waters thus leading to aerobic condition.

Select the Wrong statement/s

1. 1, 2, 3, 4
2. 2 and 3
3. 3 and 4
4. None

101. Indian Copal Tree is a plant of immense economic importance. Consider the following about it

1. It is listed as Endangered in the Red List
2. It is used in manufacturing of matches and plywood
3. It has anti-cancer properties
4. In India it is endemic to Eastern Ghat

Select the correct codes

1. 1 and 3
2. 1 and 4
3. 2 and 3
4. 1, 2, 3 and 4

102. An inverted Pyramid of biomass is represented by

1. Aquatic ecosystem
2. Ecosystem of a big tree
3. Grassland ecosystem
4. Tropical fresh ecosystem

103. Consider the following

1. Methane
2. High Temperature
3. Oxygen
4. Ozone
5. Ammonia
6. Volcanic Eruption

The conditions of the earth's atmosphere at the early stage of its origin was

1. 1, 2, 3, 5 and 6
2. 2, 3, 4, 5 and 6
3. 1, 2, 5 and 6
4. 2, 3, 5 and 6

104. Which one of the following impurities is easiest to remove from wastewater?

1. Bacteria
2. Colloids
3. Dissolved Solids
4. Suspended Solids

105. Loss of biodiversity in a region may lead to

1. Decline in plant production
2. Increased resistance to environmental perturbations such as drought
3. Decreased variability in certain ecosystem processes such as plant productivity, water use, and pest and disease cycles

Select the correct statement/s

1. 1 and 2
2. Only 3
3. Only 1
4. Only 2

106. Consider the following about Classical Smog

1. It occurs in hot humid climate
2. It is a mixture of smoke, fog, carbon dioxide and sulphur dioxide
3. It is also called as Oxidizing Smog

Select the correct codes

1. 1, 2 and 3
2. 2 and 3
3. 1 and 3
4. None

107. In which of the following general locations the inhabitants would more likely be experiencing tsunami, destructive earthquakes and volcanic poisonous gas emissions?

1. An island chain in the middle of an ocean plate
2. The trench side of an arc
3. The edge of a continent located in the middle of a plate
4. A coastal location adjacent to a large transform fault

108. What would be the most disastrous after effect of ejection of Super-Volcano on earth?

1. Tsunami
2. Lava flows
3. Fine ash particles
4. Acid Rains

109. Consider a case

CFC, Ozone and Oxygen are placed in a sealed container and exposed to UV radiation for one month. Which of the following changes will you witness after one month?

1. Increase in Ozone and Oxygen but decrease of CFC
2. Decrease of CFC and Ozone and increase in oxygen
3. Increase in CFC and Oxygen and decrease in Ozone
4. Decrease in Oxygen and CFC and increase in ozone

110. Consider the following statements

1. A Swamp is a Wetland that is forested
2. Myristica swamps are tropical fresh water swamp forests found in Western Ghats
3. Swamps serve vital roles in flood protection and nutrient removal

Select the correct code

1. 1 and 2
2. 2 and 3
3. 1 and 3
4. 1, 2 and 3

111. A recent study shows that Indian Delta's are sinking rapidly and presented some peculiar facts for this. What are the possible reasons for the same?

1. Groundwater Mining
2. Artificial levees
3. Large dams putting more sediments into rivers
4. Rise in sea level

Select the correct codes

1. 2, 3 and 4
2. 1 and 2
3. 1, 2, 3 and 4
4. 1, 2 and 3

112. Consider the following statements regarding Seagrass.

1. They are non flowering plants
2. They reproduce by pollination and seeding out seeds
3. They are also used as fertilizers
4. The major seagrass meadows in India exist along the southwest coast in the lagoons of islands from Lakshadweep in the Arabian Sea.

Select the correct code

1. 1 and 4
2. 2 and 3
3. 2, 3 and 4
4. 1, 2, 3 and 4

113. Consider the following about 'Mammals'

1. They can be oviparous (egg laying)
2. They are warm blooded
3. They don't have milk producing glands

Select the correct code

1. 1 and 2
2. 2 and 3
3. Only 2
4. 1 and 3

114. Consider the following regarding melting of ice and its effects

1. It will lower down Earth's temperature
2. It will affect Gravity of Earth
3. Give way to release of more green house gases

Select the correct code/s

1. 1 and 2
2. 2 and 3
3. 1 and 3
4. 1, 2 and 3

115. Toxins are poisonous substances and are extremely harmful. Consider the following statements regarding this

1. They are biological agents
2. They can be created synthetically
3. Toxins can be produced from bacteria, fungi, algae and plants

Select the WRONG statement/s

1. 1, 2 and 3
2. 1 and 2
3. 2 and 3
4. 1 and 3

116. Below are the characteristics of Drought Resistance Crops/Plants.

1. Transpiration is high to maintain the equilibrium of heat and water
2. Decreased Photosynthetic efficiency
3. Water uptake is low
4. Leaf surface is increased for better photosynthesis

Correct code/s

1. 1, 3 and 4
2. 1, 2, 3 and 4
3. 2 and 3
4. None

117. A tipping point is a critical threshold at which a small change in human activity can have large and long term consequences on Earth's Climate system. What the 'Tipping Elements' are as pointed out by scientists in this regard?

1. Greenland Ice sheet
2. Indian Desert
3. Amazon Forests
4. Coral Reefs
5. Boreal Forests
6. Melting of Arctic Ice

Select the correct code/s

1. 1, 3, 5 and 6
2. 1, 2, 3, 4 and 5
3. 2, 4 and 6
4. All

118. Consider the following statements

1. Lead is a toxic non-metal
2. India export majority of its Lead Production
3. Lead is used in Painting, Manufacturing of glasses and as anti-friction agent
4. Rajasthan is the leading producer of Lead in India

Select the correct code/s

1. 1, 2, 3 and 4
2. 2 and 3
3. 3 and 4
4. 1, 2 and 3

119. Natural Gas and LPG are one of the cleanest sources of available Energy. Consider the following statements regarding this

1. Natural gas has higher calorific value than LPG
2. LPG is more combustible than Natural Gas
3. Natural Gas is heavier than LPG

Select the correct code/s

1. 1, 2 and 3
2. Only 3
3. 1 and 2
4. None

120. Consider the difference between Fission and Fusion reactions

1. Both gives chain reactions
2. Fission requires more energy than Fusion to start the reaction
3. Fusion gives more stable reaction than Fission

Select the correct code/s

1. 1, 2 and 3
2. 2 and 3
3. 1 and 2
4. None

121. Consider the following

1. Rhizomes
2. Bulb
3. Pitcher
4. Tendrils
5. Corm

Of these, Modified Stems are

1. 1, 2, 3 and 4
2. 2, 3 and 5
3. 1, 2 and 5
4. 1, 3 and 4

122. India is a party to the Ramsar Convention and has declared many areas as Ramsar Sites.

Consider the following w.r.t it

1. Swamps
2. Peatland
3. Fish Ponds
4. Rice Paddies
5. Mangroves
6. Coral Reefs

Which of them comes under WETLAND?

1. 1, 2, 4 and 5
2. 1, 2, 3, 5 and 6
3. 1, 2, 3, 4, 5 and 6
4. 1, 3, 4 and 5

123. Consider the following

1. Methane
2. Carbon Dioxide
3. Sulphur Dioxide
4. Nitrous Oxide

Select the ones released from WETLAND?

1. 1 and 2
2. 1, 3 and 4
3. 1, 2 and 3
4. 1, 2 and 4

124. The “Red Data List” published by the International Union for Conservation of Nature and Natural Resources (IUCN) contain lists of

1. Information on plants, fungi and animals
2. Information on plants and animals only
3. It divides species into Six categories

Select the correct answer using the codes given below

1. 1 and 3
2. 1, 2 and 3
3. Only 3
4. Only 1

125. Consider the following

Subtropical gyre

1. North Atlantic
2. South Atlantic
3. North Pacific
4. South Pacific
5. Indian Ocean

Name of the gyre

- Columbus
Majid
Turtle
Heyerdhal
Navigator

Which of the above are correctly matched?

1. 1, 2, 3, 4 and 5
2. 3, 4 and 5
3. 1, 3 and 4
4. 1, 2 and 5

126. Consider the following

1. Sloth Bear
2. Adjutant Stork
3. Axis Deer
4. Striped Hyena
5. Rattle Snake

Which of the above are naturally found in India?

1. 1, 2, 3, 4 and 5
2. 1, 2, 3 and 4
3. 2, 3 and 5
4. 1, 3 and 4

127. Which of the following have the ability to absorb heat in the Earth's atmosphere and assist in Global Warming?

1. Sulphur Hexafluoride
2. Carbon Monoxide
3. Water Vapour
4. Soot

Select the correct answer using the code

1. 1, 2, 3 and 4
2. 1, 3 and 4
3. 2 and 3
4. 1 and 2

128. Consider the following types of fruit plants

1. Walnut
2. Cashew
3. Pomegranate
4. Plums
5. Arecanut

Which of the above are non- temperate plants?

1. 1, 3 and 4
2. 1, 2, 3, 4 and 5
3. 1, 2 and 4
4. 2, 3 and 5

129. The only anthropoid ape found in India is the

1. Slow Loris
2. Lion-tailed macaque
3. Whitebrowed Gibbon
4. Golden Langur

130. Consider the following

1. Hydrofluoro-carbons are ozone depleting in nature
2. They are more potent ozone depleting substance than Chlorofluorocarbons
3. They do not have high global warming potential

Select the correct answer using the code

1. 1 and 2
2. Only 2
3. Only 3
4. None

131. Consider the following pairs

National Park	Region
1. Bandavgarh National Park	Western India
2. Bandipur National Park	Southern India
3. Dachigam National Park	North-eastern India

Which of the above pairs is/are correctly matched?

1. 1, 2 and 3
2. Only 3
3. Only 2
4. None

132. Consider the following

1. The latest edition of UN World Water Development Report's title is ' Water and Energy'
2. World Water Development Report is an annual report released by United Nations Environment Program (UNEP)

Select the correct answer using code

1. Only 1
2. Only 2
3. Both
4. None

133. Consider the following

1. Ferns
2. Mosses
3. Blue green algae

Which of the above can be used as Bio-Fertilizers?

1. 1, 2 and 3
2. 1 and 2
3. 2 and 3
4. Only 3

134. Consider the statements about bio-fertilizers

1. They increases the yield of the crop
2. They can produce vitamins and growth promoting biochemical
3. They replaces other fertilizers when put in soil

Select the correct answer using the code

1. 1 and 2
2. 1 and 3
3. Only 1
4. 1, 2 and 3

135. Consider the following

1. Troposphere
2. Stratosphere
3. Mesosphere
4. Thermosphere

Which of the following is/are responsible for the deflection of radio-waves?

1. Only 4
2. 2 and 4
3. 2 and 4
4. None

136. Consider the following

1. Bug
2. Scorpion
3. Lobster
4. Mite

Which of the above have equal pairs of legs?

1. 1, 2 and 3
2. 2 and 4
3. 1, 2 and 3
4. 3 and 4

137. Consider the following

1. Lymphatic Filariasis
2. Leprosy
3. TB
4. Rabies
5. Malaria
6. Dengue
7. Snakebite

Which of the above are Neglected Tropical Disease classified under WHO?

1. 1, 2, 4, 6 and 7
2. 2, 3, 5 and 6
3. 1, 4, 5, 6 and 7
4. 2, 3, 4 and 5

138. Consider the following statements

1. Tissue culture can be done in plants as well as animals
2. It increases the genetic diversity
3. It provides a great scope for combating hunger
4. The susceptibility of produced species are decreased towards environment and pests

Select the correct answer from the above codes

1. 1, 2 and 3
2. 1, 3 and 4
3. 2 and 4
4. 1 and 3

139. It describes a genetically distinct variety, population or race within a species, which is adapted to a specific environment-

1. Phenotype
2. Ecophenotype
3. Ecotype
4. Genotype

140. The increasing amount of CO₂ in the air is slowly raising the temperature of atmosphere, because it absorbs

1. All solar radiation
2. UV part of radiation
3. The water vapour of the air and raises its heat
4. The infra-red part of solar radiation

141. Consider the following

1. Methane
2. Oxygen
3. Carbon dioxide
4. Hydrogen
5. Acetylene

Mixture of which of the above gases are responsible for most of the explosions in mines?

1. 1, 2 and 5
2. 2, 3 and 4
3. 1 and 2
4. 2, 3 and 4