

1. Food chain of the ecosystem is maintained by the activities of which of among the following?
 (a) **Decomposer** (b) Predators
 (c) Producer (d) Consumers
2. Which is the most warmest layer of the atmosphere?
 (a) **Thermosphere** (b) Stratosphere
 (c) Troposphere (d) Mesosphere
3. Certain Desert Lizards excrete their waste in dry form. This serves as a means of which of the following?
 (a) Protective mechanism against their predators
 (b) Limiting factor of the organism
 (c) **Adaption of the organism to the environment**
 (d) Countering the problem of Food scarcity
4. Which of the following was the first country to impose Carbon Tax?
 (a) Russia (b) USA
 (c) Sweden (d) **Finland**
5. Ozone hole is caused by which of the following chemicals?
 (a) Nitrogen oxide
 (b) **CFC**
 (c) Hydrogen Supplied
 (d) Carbon Monoxide
6. Which of the following gases absorb long wave (infrared) radiation from the earth and emit it again towards the earth?
 (a) Methane (b) **Greenhouse**
 (c) CO₂ (d) O₃
7. Energy travels from sun to earth through which of the following?
 (a) Conduction (b) **Radiation**
 (c) Convection (d) Modulation
8. "MIKE" is associated with which of the following animal?
 (a) Lion (b) **Elephant**
 (c) Tiger (d) Cat
9. The human activity, among the following, which cause maximum environmental pollution have regional and what global impact.
 (a) **Industrialization**
 (b) Urbanization
 (c) Agriculture
 (d) Mining
10. Which one among the following books is 'Central Around Environment'?
 (a) Here I stand
 (b) And the one Day
 (c) The late great planet
 (d) **Silent Spring**
11. Which of the following are two components of an eco- system?
 (a) **Plant & animal**
 (b) Plant & Light
 (c) Biotic & Micro- organism
 (d) Biotic & biotic
12. Which of the following is the smallest unit of classification?
 (a) Species
 (b) Genes
 (c) Family
 (d) **Order**
13. Nagoya Protocol is related to which of the following?
 (a) Global warming
 (b) International Finance
 (c) Pharmaceutical Industry
 (d) **Biodiversity**
14. Which of the following indicates Green House Effect in the atmosphere?
 (a) Increase in oxygen
 (b) Increase in sculpture dioxide
 (c) **Increase in sculpture dioxide**
 (d) Increase in S₂
15. Satyamangalam Wildlife Sanctuary is located in which of the following state?
 (a) Arunachal Pradesh
 (b) Kerala
 (c) **Tamilnadu**
 (d) Karnataka
16. Which one of the following region of India has a combination of mangrove forest, evergreen forest and deciduous forest?
 (a) **Andaman & Nicobar Island**
 (b) South-West Bengal
 (c) Odisha coastal Area
 (d) None of the above
17. Rameshwaram ornamentals are a typical kind of species only found in India. What is it?
 (a) Birds (b) **Spider**
 (c) Lizard (d) Toad
18. Select the correct Food chain from the given alternative
 (a) Fallen leaves → bacteria → insect larvae
 (b) **Phytoplankton → zooplankton → Fish**
 (c) grass → fox → rabbit → bird
 (d) Grass → chameleon → insect → bird
19. What % of sun's energy is needed for green plants to prepare their food by the process of photosynthesis?
 (a) 99 % (b) 50 %
 (c) 10% (d) **1%**

20. Which of the following substances will not be converted to compost when added in a composting pit?
 (a) Human & animal excrete
 (b) Fruit & vegetable peels
 (c) **Plastic bags**
 (d) waste paper
21. Which of the following radiation is responsible for the conversion of atmospheric oxygen to ozone?
 (a) **Ultraviolet Radiation**
 (b) Infrared Radiation
 (c) Cosmic Radiation
 (d) Gamma radiation
22. Which of the following is not an effect of Noise pollution?
 (a) Death of animal
 (b) Tinnitus
 (c) Hypertension
 (d) **Ozone depletion**
23. Which of the following is a tsunami warning sign?
 (a) strong weather
 (b) hailstorm
 (c) **water falling back quickly from the beach**
 (d) pets acting stranger
24. NSG stands for –
 (a) National Geographical Television
 (b) National Green Transport
 (c) National Green Trust
 (d) **National Green Tribunal**
25. Which of the following is not a major component of Biotic environment ?
 (a) Plant
 (b) Animal
 (c) Decomposer
 (d) **Water**
26. Air Quality Index is which of the following?
 (a) A measuring instrument of air pollution.
 (b) **A number**
 (c) For measuring humidity level
 (d) For forecasting rain
27. Which of the following needs an utmost remedy to preserve the environment?
 (a) **GHG**
 (b) Toxics
 (c) Pollution
 (d) Noise pollution
28. What is the best way to conserve our water reserve?
 (a) Rain water harvesting
 (b) Sustainable water utilization
 (c) Encouragement of natural regeneration
 (d) **All the above**
29. The term 'Brown Air' is used for what?
 (a) **Photochemical smog**
 (b) Sulfurous smog
 (c) Industrial smog
 (d) Arid fumes
30. Kyoto Protocol is associated with what?
 (a) Species conservation
 (b) **climate change**
 (c) Wetland conservation
 (d) Medicinal plant
31. Arsenic problem in India is primarily due to which reason?
 (a) over exploitation of coal in Bihar and Bengal
 (b) over exploitation of arsenopyrite in the hinterland
 (c) **Over exploitation of ground water in the affected areas**
 (d) Over exploitation of surface water in the affected are.
32. Which of the following is the process of restoring a forest that once existed but was removed at some point of time in the past ?
 (a) Deforestation
 (b) GHG
 (c) **Reforestation**
 (d) Jhum cultivation
33. World Wide Fund (WWF) For nature published the report on ' Living Planet ' in how many year of interval ?
 (a) Annually (b) **Every 2 yrs.**
 (c) 10 yrs. (d) 5 yrs.
34. Murlen National Park is located in which state?
 (a) **Mizoram**
 (b) Assam
 (c) Arunachal Pradesh
 (d) Bihar
35. Central Govt. targeted to generate 175GW ' Renewable Energy' by which year ?
 (a) **2022** (b) 2025
 (c) 2028 (d) 2030
36. Reserve forest are declared by which of the following organization.
 (a) Central government
 (b) **State government**
 (c) Both a & b
 (d) Neither a & b
37. Which among the following is the cause behind recently large scale killing of the elephant in Botswana Africa?
 (a) Avian botulism
 (b) Swine flu
 (c) Elephant Endotheliotropic Herpes virus

- (d) **Cyano bacteria**
38. Recently 'Pilot whale' stranding are frequently seen in news?
 (a) India, Andaman and Nicobar Island
 (b) Indonesia, Java Island
 (c) **Australia, Tasmania**
 (d) None of the above
39. Brucellosis is a bacterial disease infecting cattle and they infect human when contacted with infected cattle in which country?
 (a) Brazil (b) Russia
 (c) Bangladesh (d) **China**
40. Bonda tribes are known as 'Particularly vulnerable Tribe Group' (PVTG) Found in which state?
 (a) Bihar (b) **Odisha**
 (c) West Bengal (d) Jharkhand
41. The salination can be defined as?
 (a) Accumulation of salt in the body
 (b) Accumulation of salt in the water
 (c) Accumulation of salt in the animal
 (d) **Accumulation of salt in the soil**
42. Which of the following causes melanornia disease?
 (a) Acid rain
 (b) Allergens
 (c) **Ozone depletion**
 (d) None of the above
43. Which of the following causes soil pollution?
 (a) Ozone
 (b) Aerosol
 (c) **Acid rain**
 (d) None of the above
44. At what time of the day relative humidity in the environment is at minimum point?
 (a) When the air temperature is lowest
 (b) Before sunrise
 (c) Midnight
 (d) **When the air temperature is higher**
45. What is hibernation?
 (a) **Winter sleep**
 (b) Summer sleep
 (c) Adaptation animals to escape from predators
 (d) None of the above
46. Which of the following gas is present in the air in maximum amount?
 (a) **Nitrogen**
 (b) Carbon dioxide
 (c) Oxygen
 (d) Methane
47. The solar cell converts which energy to electrical energy?
 (a) Chemical energy
 (b) **Solar energy**
 (c) Magnetic energy
 (d) None of the above
48. What is Aestivation?
 (a) **Summer sleep**
 (b) winter sleep
 (c) Adaption of animal to escape from predators
 (d) All of the above
49. Which of the following is said to be a biodegradable waste?
 (a) Plastic (b) **Eggshell**
 (c) Glasses (d) Polythene
50. Sugar is the form of
 (a) Fat (b) Water
 (c) Protein (d) **Carbohydrate**
51. The 'Red Data Book' published by the IUCN contains list of.
 (a) Endemic plant and species present in the biodiversity hotspot.
 (b) **Threatened plant and animal species**
 (c) Protected sites for conservation of nature and natural resources in various countries
 (d) None of the above
52. Which among the following is not a site for in- situ method of conservation of flora?
 (a) Biosphere (b) **Botanical garden**
 (c) National park (d) Wildlife sanctuary
53. The 2004 Tsunami made people realize that mangroves can serve as reliable safety hedge against coastal calamities. How do mangroves functions as safety hedge?
 (a) The mangroves swaps separate the human settlement from the sea by a wide zone in which people neither live nor venture out.
 (b) The mangroves provides both food and medicines which people are in need of after any natural disaster.
 (c) The mangroves trees are tall with dense canopies and serve as an excellence shelter during cyclone or tsunami.
 (d) **The mangroves trees do not get uprooted by storms and tides because of their extensive roots.**
54. The Himalayan range is very rich in species diversity. Which of the following is the most appropriate reason for this phenomenon?
 (a) It has less human interference.
 (b) Exotic and invasive species have not been introduced in this region.

- (c) It has a high rainfall that supports luxuriant vegetative growth.
- (d) **It is a confluence of different bio-geographical zone.**
- 55.** The formation of ozone hole in the Antarctic region has been a cause of concern. What could be the reason for the formation of this hole.
- (a) Presence of prominent tropospheric turbulence and inflow of chlorofluoro carbons.
- (b) **Presence of prominent polar front & stratospheric clouds and inflow of chlorofluorocarbons**
- (c) Absence of polar front & stratospheric clouds and inflow of methane and chlorofluorocarbons
- (d) Increased temperature at polar region due to global warming
- 56.** If tropical rain forest is removed, it does not regenerate quickly as compared to a tropical deciduous forest. This is because
- (a) The rain forest species are slow-growing
- (b) Exotic species invade the fertile soil of rain forest.
- (c) **The soil of rain forest is deficient in nutrients.**
- (d) Propagules of the tree in a rain forest have poor viability.
- 57.** Regarding "Carbon Credits", which of the following statement is not correct?
- (a) The carbon credit system was ratified in conjunction with the Kyoto protocol
- (b) Carbon credits are awarded to countries or groups that have reduced GHGs below their emission quota.
- (c) The goal of carbon credit system is to limit the increase of carbon emission quota.
- (d) **Carbon credits are traded at a price fixed from time to time by the United Nations Environment Programme.**
- 58.** Two important rivers- one with its source in Jharkhand and known by a different name in Odisha and another, with its source in Odisha – merge at a place only a short distance from the sea (Bay of Bengal). This is an important site of wildlife and biodiversity and a protected area. Which one of the following could be this?
- (a) Similipal
- (b) **Bhitarkanika**
- (c) Chandipur – on - Sea
- (d) Gopalpur- on- Sea
- 59.** In which among the following categories of protected areas in India are local people not allowed to collect and use the biomass?
- (a) **National Park**
- (b) Wildlife Sanctuaries
- (c) Biosphere Reserves
- (d) Wetlands declared under Ramsar convention
- 60.** Vultures which were very common seen in Indian countryside some years ago are rarely seen now a days. This is attributed to
- (a) The destruction of their nesting sites by new invasive species.
- (b) Scarcity of food available to them.
- (c) A widespread, persistent and fatal disease among them.
- (d) **A drug used by cattle owners for treating their diseased cattle.**
- 61.** The increasing amount of CO₂ in the air is slowly raising the temperature of the atmosphere, because it absorbs?
- (a) All the solar radiation
- (b) **The infrared part of the solar radiation**
- (c) The water vapour of the air and retains its heat.
- (d) The ultraviolet part of the solar radiation.
- 62.** Which one among the following industries is the maximum consumer of water in India?
- (a) Engineering
- (b) Paper and Pulp
- (c) **Thermal Power**
- (d) Textiles
- 63.** Fruits stored in a cold chamber exhibit longer storage life because
- (a) Exposure to sunlight is prevented.
- (b) **Rate of respiration is decreased.**
- (c) There is an increase in humidity.
- (d) Concentration of CO₂ in the environment is increased.
- 64.** Many transplanted seedling do not grow because
- (a) Leaves get damaged during transplantation.
- (b) The new soil does not contain favorable minerals.
- (c) Most of the root hairs grip the new soil too hard.
- (d) **Most of the root hair are lost during transplantation.**
- 65.** "Climate is extreme, rainfall is scanty and the people used to be nomadic herders". The above statements best describes which of the following regions?
- (a) African Savannah

- (b) **Central Asian Steppe**
 (c) North American Prairie
 (d) Siberian Tundra
66. Under the Scheduled Tribes and Other Traditional Forest Dweller's (Recognition of Forest Rights) Act, 2006, who shall be the authority to initiate the process for determining the nature and extent of individual or community forest right or both?
 (a) **Gram Sabha**
 (b) State forest department
 (c) District Collector/Deputy Commissioner
 (d) Tahsildar/BDO/Mandal Revenue Officer.
67. Improper handling and storage of cereal grains and oil seeds result in the production of toxins known as Aflatoxins which are not generally destroyed by normal cooking process. Aflatoxins are produced by?
 (a) viruses (b) Protozoa
 (c) bacteria (d) **Moulds**
68. Acid rain is caused by the pollution of environment by which among the following ?
 (a) CO₂ & N₂ (b) O₃ & CO₂
 (c) CO & CO₂ (d) **NO₂ & SO₂**
69. Which one of the following terms describes not only the physical space occupied by an organism, but also its functional role in the community of organisms ?
 (a) Habitat (b) Ecotone
 (c) **Ecological niche** (d) Home range
70. Photochemical smog is a resultant of the reaction among.
 (a) **NO₂, O₃ and Peroxyacetyl Nitrate in the presence of sunlight.**
 (b) CO, O₂ and peroxyacetyl nitrate in the presence of sunlight.
 (c) CO, CO₂ and NO₂ at low temperature.
 (d) high concentration of NO₂, O₃ and CO in the evening.
71. In the grasslands, trees do not replace the grasses as a part of an ecological succession because of?
 (a) Insects and fungi
 (b) Limited sunlight and purity of nutrients
 (c) **Water limit and fire**
 (d) lack of soil resources.
72. Which of the following is the correct sequence of ecosystem in the order of decreasing productivity?
 (a) Oceans, lakes, grasslands, mangroves
 (b) **Ocean, mangroves, lakes, grassland**
 (c) Mangroves, oceans, grassland, lakes
 (d) Mangroves, grassland, lakes, oceans
73. Contour bonding is a method of soil conservation used in
 (a) Desert margins, liable to strong wind action
 (b) Low flat plains, close to stream course, likable to flooding
 (c) Scrub lands, liable to spread of weed growth
 (d) **Non of the above**
74. The most important strategy for the conservation of biodiversity together with traditional human life is the establishment of?
 (a) **Biosphere Reserves**
 (b) Botanical Gardens
 (c) National Parks
 (d) Wildlife Sanctuaries
75. Lichens, which are capable of initiating ecological succession even on a bare rock, are actually a symbiotic association of
 (a) algae and bacteria
 (b) **algae and fungi**
 (c) bacteria and fungi
 (d) fungi and mosses
76. Every year, a month long ecologically important campaign/ festival is held during which certain communities/tribes plant saplings of fruit-bearing trees. Which of the following are such communities/tribes?
 (a) Irula and Toda
 (b) **Gond and Korku**
 (c) Bhutia and Lepcha
 (d) Sahariya and Ayariya
77. In India, cluster bean (Guar) is traditionally used as a vegetable or animal feed, but recently the cultivation of this has assumed significance. Which one of the following statement is correct in this context?
 (a) The oil extracted from seeds is used in the manufacture of biodegradable plastics
 (b) **The gum made from its seeds is used in the extraction of shale gas.**
 (c) The leaf extract of this plant has the properties of anti-histamines.
 (d) It is a source of high quality biodiesel.
78. Which one of the following is the process involved in photosynthesis?
 (a) Potential energy is released to form free energy
 (b) **Free energy is converted into potential energy and stored.**

- (c) Oxygen is taken and carbon dioxide and water vapour are given out.
 (d) Food is oxidized to release CO₂ and H₂O
79. Among the following organism, which one does not belong to the class of other three?
 (a) **Crab** (b) Spider
 (c) Mite (d) Scorpion
80. Which one of the following is the correct sequence of a food chain?
 (a) Crustaceans – Diatoms – Herrings
 (b) Crustaceans – Herrings – Diatoms
 (c) **Diatoms – Crustaceans – Herrings**
 (d) Diatoms – Herrings – Crustaceans
81. If a wetland of International importance is brought under the 'Montreux Record', what does it imply?
 (a) **Changes in ecological character have occurred are occurring or are likely to occur in the wetland as a result of human interference.**
 (b) The country in which the wetland is located should enact a law to prohibit any human activity within five kilometers from the edge of the wetland.
 (c) It is given the status of 'World Heritage Site'.
 (d) The survival of the wetland depends on the cultural practices and traditions of certain communities living in its vicinity and therefore the cultural diversity therein should not be destroyed.
82. Which one of the following National Parks has a climate that varies from tropical to subtropical, temperate and arctic.
 (a) Khanchandzonga National Park
 (b) Nandadevi National Park
 (c) Neora National Park
 (d) **Namdapha National Park**
83. 'BioCarbon Fund Initiative for Sustainable Forest Landscape' is managed by the,
 (a) ADB (b) IMF
 (c) UNEP (d) **WB**
84. The genetic Engineering Appraisal Committee is constituted under the
 (a) **Environment (Protection) Act, 1986.**
 (b) Food safety and Standard Act, 2006
 (c) Wildlife (Protection) Act, 1972.
 (d) None of the above
85. In India which one of the following types of forest is 'teak' a dominant tree species?
 (a) **Tropical moist deciduous forest**
 (b) Tropical rain forest
 (c) Tropical thorn scrub forest
 (d) None of the above
86. Which one of the following is the best description of the term "ecosystem"?
 (a) **A community of organisms together with the environment in which they live.**
 (b) The flora and fauna of a geographical area.
 (c) That part of the Earth which is inhabited by living organism.
 (d) None of the above
87. H₁N₁ virus is sometimes mentioned in the news with reference to which one of the following diseases?
 (a) AIDS (b) **Swine Flu**
 (c) Bird Flu (d) Dengue
88. Which one of the following is the 'National Aquatic Animal of India'?
 (a) **Gangatic dolphin**
 (b) Gharial
 (c) Saltwater crocodile
 (d) None of the above
89. Which one of the following is associated with the issue of control and phasing out of the use of ozone depleting substances?
 (a) Kyoto Protocol
 (b) **Montreal Protocol**
 (c) Nagoya protocol
 (d) None of the above
90. What is Rio+20 conference, often mentioned in the news?
 (a) **It is the UN-conference on Sustainable Development.**
 (b) It is a Ministerial Meeting of the WTO.
 (c) It is a conference of the Inter-Governmental Panel on Climate Change.
 (d) None of the above
91. Which of the following best describes/describe the aim of 'Green India Mission' of the Government of India?
 I. Incorporating environmental benefits and costs into the Union and State Budgets thereby implementing the 'green accounting'
 II. Launching the second green revolution to enhance agricultural output so as to ensure food security to one and all in the future
 III. Restoring and enhancing forest cover and responding to climate change by a combination of adaptation and mitigation measures
 Select the correct answer using the code given below.
 (a) I only (b) II and III only
 (c) **III only** (d) I, II and III

- 92.**What is 'Greenhouse Gas Protocol'?
- It is an international accounting tool for government and business leaders to understand, quantify and manage greenhouse gas emissions**
 - It is an initiative of the United Nations to offer financial incentives to developing countries to reduce greenhouse gas emissions and to adopt eco-friendly technologies
 - It is an inter-governmental agreement ratified by all the member countries of the United Nations to reduce greenhouse gas emissions to specified levels by the year 2022
 - It is one of the multilateral REDD+initiatives hosted by the World Bank
- 93.**'Gadgil Committee Report' and 'Kasturirangan Committee Report', sometimes seen in the news, are related to
- constitutional reforms
 - Ganga Action Plan
 - linking of rivers
 - protection of Western Ghats**
- 94.** The term 'Intended Nationally Determined Contributions' is sometimes seen in the news in the context of
- pledges made by the European countries to rehabilitate refugees from the war-affected Middle East
 - plan of action outlines by the countries of the world to combat climate change**
 - capital contributed by the member countries in the establishment of Asian Infrastructure Investment Bank
 - plan of action outlines by the countries of the world regarding Sustainable Development Goals
- 95.**In which of the following regions of India are you most likely to come across the 'Great Indian Hornbill' in its natural habitat?
- Sand deserts of North West India
 - Higher Himalayas of Jammu & Kashmir
 - Salt marshes of Western Gujarat
 - Western Ghats**
- 96.**From the ecological point of view, which one of the following assumes importance in being a good link between the Eastern Ghats and the Western Ghats?
- Sathymangalam Tiger Reserve**
 - Nallamala Forest
 - Nagarhoke National Park
 - Seshachalam Biosphere Reserve
- 97.**Biological Oxygen Demand (BOD) is a standard criterion for
- Measuring oxygen levels in blood
 - Computing oxygen levels in forest ecosystems
 - pollution assay in aquatic ecosystems**
 - Assessing oxygen levels in high altitude regions
- 98.**If you want to see gharials in their natural habitat, which one of the following is the best place to visit?
- Bhitarkanika Mangroves
 - Chambal River**
 - Pulicat Lake
 - DeeporBeel
- 99.**"Momentum for Change: Climate Neutral Now" is an initiative launched by
- The Intergovernmental Panel on Climate Change
 - The UNEP Secretariat
 - The UNFCCC Secretariat**
 - The World Meteorological Organization
- 100.** In which one of the following States is Pakhui Wildlife Sanctuary located?
- Arunachal Pradesh**
 - Manipur
 - Meghalaya
 - Nagaland