

ENVIRONMENT

Q.1) Which of the following leaf modifications occur(s) in the desert areas to inhibit water loss?

1. Hard and waxy leaves
2. Tiny leaves
3. Thorns instead of leaves

Select the correct answer using the code given below:

- a) 2 and 3 only
- b) 2 only
- c) 3 only
- d) 1, 2 and 3

Q.2) How is the National Green Tribunal (NGT) different from the Central Pollution Control Board (CPCB)?

1. The NGT has been established by an Act whereas the CPCB has been created by an executive order of the Government.
2. The NGT provides environmental justice and helps reduce the burden of litigation in the higher courts whereas the CPCB promotes cleanliness of streams and wells, and aims to improve the quality of air in the country.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.3) Which of the following statements best describes "carbon fertilization"?

- a) Increased plant growth due to increased concentration of carbon dioxide in the atmosphere
- b) Increased temperature of Earth due to increased concentration of carbon dioxide in the atmosphere
- c) Increased acidity of oceans as a result of increased concentration of carbon dioxide in the atmosphere
- d) Adaptation of all living beings on Earth to the climate change brought about by the increased concentration of carbon dioxide in the atmosphere

Q.4) With reference to the 'Global Alliance for Climate Smart Agriculture (GACSA)', which of the following statements is/are correct?

1. GACSA is an outcome of the Climate Summit held in Paris in 2015.
2. Membership of GACSA does not create any binding obligations.
3. India was instrumental in the creation of GACSA.

Select the correct answer using the code given

- a) 1 and 3 only
- b) 2 only
- c) 2 and 3 only
- d) 1, 2 and 3

ENVIRONMENT

Q.5) Which of the following best defines the permaculture?

- a) Permaculture is a system of agriculture and aquaculture within the ecological carrying capacity of the region.
- b) Permaculture is a system of agricultural and social design principles centered on simulating or directly utilizing the patterns and features observed in natural ecosystems.
- c) Permaculture is a system of agriculture and agro based industry developing side by side.
- d) None

Q.6) Identify the incorrect pair from the below:

(Financial Mechanism) ::

(Associated Convention)

- a) Green Climate Fund (GCF) :: COP 16 held in Cancun
- b) Global Environment Facility (GEF) Fund :: eve of the 1992 Rio Earth Summit
- c) Special Climate Change Fund (SCCF) :: Kyoto Protocol in 2001
- d) Adaptation Fund (AF) :: Paris Convention 2015

Q.7) Consider the following statements and select the correct one:

- a) Decreasing levels of ozone in the stratosphere will lead to reduction

in the levels of smog in major cities.

- b) Decreasing levels of ozone in the stratosphere will lead to increase in the occurrence of skin cancer in humans.
- c) Decreasing levels of ozone in the stratosphere will lead to reduction in rate of global warming.
- d) Decreasing levels of ozone in the stratosphere will lead to increase in photosynthetic activity of phytoplankton.

Q.8) Consider the following statements regarding Bio indicators:

1. A bio indicator is a living organism that gives us an idea of the health of an ecosystem.
2. Only microorganisms act as bio indicators.

Which of the above statements are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.9) Bay of Bengal hosts a 'dead zone' of around 60,000 square kilometres. Which of the following statements correctly defines a dead zone?

- a) It is a region which is almost devoid of dissolved oxygen.

ENVIRONMENT

- b) It is a region where population of fish has become almost nil because of over fishing.
- c) It is a region where the population of predator exceeds the prey.
- d) It is a zone of dying coral reefs.

d) Neither 1 nor 2

Q.10) Western Ghats has very rich biodiversity as compared to Eastern Ghats, because -

- 1. Western Ghats are continuous mountains.
- 2. Western Ghats is area of high orographic precipitation.
- 3. Many major rivers have its source at Western Ghats.

Select the correct answer using the codes given below:

- a) 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Q.11) Consider the following statements about Animal Welfare Board of India.

- 1. The Animal Welfare Board of India is a statutory advisory body.
- 2. The Animal Welfare Board of India set up in 1962, in accordance with Wildlife (Protection) Act 1972.

Which of the above statements is/are correct?

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2

Q.12) The Earth Summit resulted in which of the following documents

- 1. Rio Declaration on Environment and Development
- 2. Agenda21
- 3. Forest Principles

Select the correct answer using the codes given below.

- a) 1 and 2 only
- b) 1 only
- c) 2 only
- d) 1, 2 and 3

Q.13) Megadiverse Nation status is conferred by Conservation International. Which of the following statements are correct regarding Megadiverse countries?

- 1. They should have 0.5% of the total species of vascular plants or 1000 endemic vascular plant species.
- 2. They should have a marine ecosystem.
- 3. India is a Megadiverse country.

Select the code from following:

- a) 1 and 2
- b) 2 and 3
- c) 3 only
- d) None of the above

Q.14) With reference to 'Algal Blooms', which of the following statements is/are correct?

ENVIRONMENT

1. They are always harmful for aquatic ecosystem.
 2. They are called 'Red Tides'.
 3. Algal blooms can occur in freshwater as well as marine environments.
- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Select the correct answer using the code given below.

- a) 1 and 3 only
- b) 2 only
- c) 2 and 3 only
- d) 1, 2 and 3

Q.15) Which of the following statements correctly explains the term 'Saprotroph'?

- a) This is the name given to the organisms which produce their own food without sunlight.
- b) It is an organism which feeds on decaying organic matter.
- c) This is the name given to highest consumer in a food chain.
- d) It is a primary food producer in marine food chain.

Q.16) Consider the following statements with reference to Wetlands:

1. Wetlands exist in every country and in every climatic zone, from the Polar Regions to the tropics, from high altitudes to dry regions.
2. Mangroves, peat lands, rice fields and even coral reefs can be considered a wetland.

Which of the statements given above is/are correct?

Q.17) Which among the following are likely to increase after large areas of tropical rain forests are cut down?

1. Erosion by rivers flowing through the areas
2. Rate of nutrient loss from the areas
3. Species diversity of the areas
4. Average surface temperature of the soil in the areas

Select the correct code:

- a) 1 and 2 only
- b) 1, 2 and 4
- c) 1, 3 and 4
- d) 1, 2, 3 and 4

Q.18) In the context of solving pollution problems, what is/are the advantage(s) of bioremediation technique?

1. It is a technique for cleaning up pollution by enhancing the same biodegradation
2. Any contaminant with heavy metals such as cadmium and lead can be readily and completely treated by bioremediation using microorganisms.
3. Genetic engineering can be used to create microorganisms specifically designed for bioremediation.

ENVIRONMENT

Select the correct answer using the correct codes given below:

- a) 1 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

- b) It is in relation to limiting the use of plastic which are above 2 microns.
- c) It is in relation to limiting the use of plastic and plan policy on alternatives.
- d) It deals with conservation of Antarctica and Antarctic

Q.19) Biosphere reserves are demarcated into following 3 inter-related zones-Core zones, Buffer Zones and Transition Zone. A core zone being National Park or Sanctuary is regulated under which of the following acts?

- a) Environmental Protection Act, 1986
- b) Wildlife Protection Act, 1972
- c) Biodiversity Act, 2002
- d) The Forest (Conservation) Act, 1980

Q.22) Which of the following are classified as 'Lotic Ecosystem'?

- 1. Brooks
- 2. Springs
- 3. Lakes
- 4. Rivers

Select the correct code

- a) 1 and 3
- b) 1, 2 and 4
- c) 3 only
- d) 2 and 4

Q.20) According to IUCN, which of the following species is not critically endangered?

- a) Malabar Civet
- b) Hangul
- c) Pygmy Hog
- d) Blackbuck

Q.23) The term 'Extended Producer Responsibility' is often seen in the news related to

- a) Ecosystems services provided by Biodiversity
- b) Waste management
- c) Marine fishing
- d) Mining and Metallurgy

Q.21) Consider the below statements with regard to Under2 Coalition and identify the correct statement:

- a) It is a group of ambitious governments from around the world committed to combating climate change.

Q.24) Consider the following statements about 'Net Present Value [NPV] Of Forest'.

ENVIRONMENT

1. It is defined under Forest Rights Act 2006.
2. It is calculated for a period of 50 years.
3. It is the amount paid by the project proponent for diverting land for non-forest use to compensate the loss in ecosystem services.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1, 2 and 3
- d) 2 only

Q.25) Consider the following statements about Basel Convention:

1. It is an international treaty that was designed to reduce the movements of hazardous waste between nations.
2. It specifically focuses on to prevent transfer of hazardous waste from developed to less developed countries (LDCs).
3. It also addresses the movement of radioactive waste between different nations.

Select the correct code:

- a) 1 and 2
- b) 1 and 3
- c) 2 and 3
- d) 1, 2 and 3

Q.26) Consider the following statements regarding Cartagena Protocol:

1. The protocol seeks to protect biodiversity from environmental threats like acid rain, pollution, land degradation etc.
2. It allows member countries to ban imports of genetically modified organisms if they feel that there is not enough scientific evidence that the product is safe.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.27) Consider the following statements about The Partnership for Land Use Science (Forest-PLUS)

1. It is a joint programme by Ministry of Environment, Forest and Climate Change and United Nations Environment Programme (UNEP)
2. It is aimed at strengthening the capacity for REDD (Reducing Emissions from Deforestation and Forest Degradation) implementation in India

Select the correct statements

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

ENVIRONMENT

Q.28) Consider the following statements about 'Silai/Sal Tree'

1. It is found in both the Eastern Ghats and Western Ghats
2. The dry leaves of the tree are a major source for the production of leaf plates
3. Oil extracted from the seeds of the tree is used as edible oil

Select the correct statements

- a) Only 2
- b) 2 and 3
- c) 1 and 2
- d) 1 and 3

Q.29) Consider the following statements about 'Global Partnership on Wildlife Conservation and Crime Prevention for Sustainable Development'

1. It is funded by the Global Environment Facility (GEF)
2. It is focused on countries from Asia, South America and Africa
3. It was established during the Gaborone Convention

Select the correct statements

- a) 1 Only
- b) 1 and 2
- c) 1 and 3
- d) None of the above

Q.30) Which of the following statements is/are correct about 'circadian rhythm'?

1. It is a biological rhythm with a twelve hour cycle
2. It can be found in plants and animals only
3. It can be synchronized by environmental cycles

Select the correct statements

- a) 1 Only
- b) 1 and 2
- c) 3 Only
- d) 1 and 3

Q.31) Common Risk Mitigating Mechanism (CRMM), an insurance scheme is associated with which of the following groupings

- a) BRICS
- b) Climate Vulnerable Forum
- c) United Nations Environment Programme
- d) International Solar Alliance

Q.32) Consider the following statements about 'Biofuture Platform'

1. It aims to accelerate development and scale-up the deployment of modern sustainable low-carbon alternatives to fossil based solutions in transport fuels, industrial processes, chemicals, plastics and other sectors
2. It was launched at the twenty-third Conference of the Parties (COP23), Bonn

Select the correct statements

ENVIRONMENT

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.33) Consider the following statements with respect to 'Global Energy Interconnection Development and Cooperation Organisation (GEIDCO)'

1. It is an international organization among willing firms, associations, institutions and individuals who are dedicated to promoting the sustainable development of energy worldwide.
2. It is the brainchild of European Union

Select the correct code:

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.34) Which of the following are benefits of 'Coated Fertilizers'?

1. Prolonged supply of nutrients
2. Uniform plant nutrition
3. Decreased leaching

Select the correct code:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) All of the above

Q.35) Consider the following statements about Renewable Energy Certificates (RECs)

1. They are aimed at addressing the mismatch of renewable energy resources in the States and their Renewable Purchase Obligation (RPO) requirements
2. They are traded on the Indian Energy Exchange (IEX) and the Power Exchange of India Ltd (PXIL)

Select the correct statements

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.36) Consider the following statements about Global Partnership on Forest Landscape Restoration (GPFLR)

1. It responds directly to the Bonn Challenge to restore 150 million hectares of deforested and degraded land by 2020 and 350 million hectares by 2030.
2. It was initiated by the International Union for Conservation of Nature

Select the correct statements

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.37) Consider the following statements about 'Satkosia Tiger Reserve'

ENVIRONMENT

1. It is located where the Mahanadi River passes through a gorge in the Eastern Ghats
2. It supports moist deciduous forest and dry deciduous forest
3. It is a natural habitat for Sangai Deer

Select the correct statements

- a) 1 Only
- b) 1 and 2
- c) 2 Only
- d) 1 and 3

Q.38) Consider the following statements about 'Global Invasive Alien Species Information Partnership (GIASI Partnership)'

1. All Parties to the Convention of Biological Diversity are partners of the GIASI Partnership
2. The partners are committed to the effective implementation of Aichi Biodiversity Target 9

Select the correct statements

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.39) Consider the following statements in respect of Trade Related Analysis of Fauna and Flora in Commerce (TRAFFIC):

1. TRAFFIC is a bureau under United Nations Environment Programme (UNEP).

2. The mission of TRAFFIC is to ensure that trade in wild plants and animals is not a threat to the conservation of nature.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.40) 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?

- a) Sathyamangalam Tiger Reserve
- b) Nallamala Forest
- c) Nagarhole National Park
- d) Seshachalam Biosphere Reserve

Q.41) 'Biological Oxygen Demand (BOD)' is a standard criterion for

- a) Measuring oxygen levels in blood
- b) Computing oxygen levels in forest ecosystems
- c) Pollution assay in aquatic ecosystems
- d) Assessing oxygen levels in high altitude regions

Q.42) With reference to an initiative called "The Economics of Ecosystems and Biodiversity (TEEB)", which of the following statements is/are correct?

ENVIRONMENT

1. It is an initiative hosted by UNEP, IMF and World Economic Forum.
2. It is a global initiative that focuses on drawing attention to the economic benefits of biodiversity.
3. It presents an approach that can help decision-makers recognize, demonstrate and capture the value of ecosystems and biodiversity.

Select the correct answer using the code given below.

- a) 1 and 2 only
- b) 3 only
- c) 2 and 3 only
- d) 1, 2 and 3

Q.43) 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 kilo meters from the edge of the wetland
- c) 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
- d) It is given the status of 'World Heritage Site'

Q.44) 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

Q.45) With reference to 'Eco-Sensitive Zones', which of the following statements is/are correct?

1. Eco-Sensitive Zones are the areas that are declared under the Wildlife (Protection) Act, 1972.
2. The purpose of the declaration of Eco-Sensitive Zones is to prohibit all kinds of human activities, in those zones except agriculture.

Select the correct answer using the code given below.

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.46) What is the role of ultraviolet (UV) radiation in the water purification systems?

1. It inactivates/kills the harmful microorganisms in water.
2. It removes all the undesirable odours from the water.
3. It quickens the sedimentation of solid particles, removes turbidity and improves the clarity of water.

ENVIRONMENT

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Q.47) If a tropical rain forest is removed, it does not regenerate quickly as compared to a tropical deciduous forest. This is because

- a) The soil of rain forest is deficient in nutrients
- b) Propagules of the trees in a rain forest have poor viability
- c) The rain forest species are slow-growing
- d) Exotic species invade the fertile soil of rain forest

Q.48) Which of the following of a species best describes, how an organism or population responds to the distribution of resources and competitors, and how it in turn alters those same factors for its survival?

- a) Ecotone
- b) Ecology
- c) Ecological niche
- d) Edge effect

Q.49) Any practice that affects the equilibrium of an aquatic environment may alter the temperature of that environment and subsequently cause

thermal pollution. Consider the following statements regarding thermal pollution:

1. Thermal pollution comes in the form of dumping warm waters and not cold waters into lake, river, or ocean.
2. Volcanic eruption is one source of thermal pollution.
3. Due to thermal pollution dissolved oxygen content in water increases.

Choose the correct answer using the codes given below.

- a) 1 and 3 only
- b) 2 only
- c) 3 only
- d) None

Q.50) Which of the following is/are the possible consequence/s of heavy sand mining in riverbeds?

1. Decreased salinity in the river
2. Pollution of groundwater
3. Lowering of the water-table

Select the correct answer using the code given below:

- a) 1 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Q.51) Recently the Pet Coke or Petroleum coke was in news. Consider the following statements about it.

ENVIRONMENT

1. Pet coke is a solid carbon rich material derived from oil refining.
2. It is cleaner alternative to coal and emits 11% less greenhouse gas.
3. India is the world's largest producer of pet coke.

Select the correct statements using the codes given below.

- a) 1 Only
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

