

TYBSc Semester 6

Paper-4

Which of the following is a non-renewable resource?

- Water
- Air
- Fossil fuels
- Solar energy

In India, how much percentage of land area is forest?

- 52%
- 23 %
- 32%
- 18%

Which of the following are non-metallic mineral resources?

- Mica
- Chromium
- Copper
- Iron

Which of the following process is involved for converting oils in to usable biodiesel?

- Transacetalization
- Trasnalkalisation
- Transmethylation
- Transesterification

Which of the following process involves direct controlled burning of waste in the presence of oxygen?

- Composting
- Incineration
- Aerobic digestion
- Pyrolysis

Which of the following method is used for rain water harvesting in rural areas?

- Contour bunding
- Recharge pits
- Tube wells
- Recharge trench

Which of the following is a renewable resource?

- Minerals
- Coal
- Fossil fuels

- Water

How much percentage of earth is covered with water?

- 70%
- 80%
- 50%
- 30%

How much percentage of water available on earth is fresh water?

- About 3%
- About 10%
- About 12%
- About 20%

India has how much percentage of world's total iron ore reserves?

- 50%
- 60%
- 80%
- 20%

The Environmental Protection Act, 1986, was enacted as per the script of United Nations Conference on the Human Environment, 1972 which was held at which of the following place?

- Stockholm, Sweden
- Kyoto, Japan
- Geneva, Switzerland
- Rio de Janeiro, Brazil

Which of the following is a cyclic resource ?

- Water
- Coal
- Fossil fuels
- Solar energy

Which of the following is a Green House Gas ?

- Oxygen
- Methane
- Helium
- Nitrogen

What is composting ?

- The process of decomposition of organic matter by chemical treatment under controlled conditions.
- The natural process of decomposition of organic matter by microorganisms under controlled conditions.
- The process by which biodegradable waste is rapidly heated to remove moisture and reduce overall weight.
- The process which involves molecular breakdown of larger organic matter molecules into smaller molecules in presence of heat and absence of oxygen.

Which of the following is an Extended Producer Responsibility for E-waste Management ?

- The pollution control board is responsible for collection of e-waste generated after end of life of their products by depositing in a collection centers.
- The consumer is responsible for disposal of e-waste generated after end of life of their products by discarding it in the dustbins.
- The producer is not responsible for collection of e-waste generated after end of life of their products by depositing in a collection centers.
- The producer is responsible for collection of e-waste generated after end of life of their products by setting up collection centers.

Watershed covering land area more than 50,000 hectares are classified into which of the following category ?

- Mini-watershed
- Micro-watershed
- Sub-watershed
- Macro-watershed

Who gave the original concept of artificial glaciers from which the 'Ice Stupa' was ideated ?

- Sonam Wangchuk
- Chewang Norphel
- Jamyang Namgyal
- Tenzing Norgay

According to IAIA, what includes a systematic process used to identify, evaluate and mitigate the environmental effects of a proposed project prior to major decisions and commitments being made ?

- Environmental Importance Accreditation
- Environmental Importance Association
- Environmental Impact Assessment
- Environmental Impact Accreditation

Renewable resources are _____.

- Exhaustible
- In-exhaustible
- Man made
- Exhaustible and man made

Choose the correct statement

- India uses 80% water for agriculture, 17% for industry and 3% for domestic use.
- India uses 90% water for agriculture, 7% for industry and 3% for domestic use.
- India uses 90% water for agriculture, 5% for industry and 5% for domestic use.
- India uses 80% water for agriculture, 10% for industry and 10% for domestic use.

_____ is a nonferrous mineral.

- Copper and bauxite
- Copper and iron
- Bauxite and iron
- Tungsten and bauxite

Wind energy is _____.

- Eco-friendly and does not cause any pollution
- Eco-friendly but causes noise pollution
- Eco-friendly with zero investment
- Eco-friendly and reliable

_____ are the devices that can create electronic waste.

- Printer, CDs, microwave, fridge etc.
- Oxymeter, CDs, Printer, CDs, microwave, expired medicines etc.
- Mouse, laser pointer, hydraulic door closer etc.
- Remote control, bulb, syringe etc.

Incineration is _____.

- A process of heating of waste in presence of oxygen
- A process of burning using organic fuel
- A process of hazardous waste management
- A process of burning of waste in presence of oxygen.

Which animals are anatomically and physiologically exclusively adapted to eating plant material?

- Herbivores
- Carnivores
- Detritivorous
- Omnivorous

Which of the following animal lives in a group called as herd?

- Dolphins
- Wolves
- Deer
- Monkey

Which of the following is biotic factor of the habitat?

- Temperature
- Humidity
- Light intensity
- Predators

What is the reason for poaching of Tigers?

- For horn
- For Ivory
- For Skin and bones
- For crop protection

Which of the following survey involves capturing wild animals on film in absence of human and in their natural habitat?

- Aerial survey
- Camera trap survey
- Line transect survey
- Track survey

Which of the following animal lives in a group called as Pod?

- Dolphins
- Wolves
- Deer
- Monkey

Which of the following is not a terrestrial habitat?

- Deserts
- Steppes
- Estuaries
- Grasslands

Which of the following is defined as competition between animals of same species that compete for the same resources in an ecosystem?

- Inter-species competition
- Intra-species competition
- Niche competition
- Habitat competition

Which of the following harvesting method involves removal of all the trees of an area?

- Clear-cut harvesting
- Thinning harvesting
- Shelter-wood harvesting
- Seed tree harvesting

Which of the following is disadvantage of flocking in birds?

- Protection
- Competition
- Mating
- Foraging

Which of the following is a sociographical area defended by an organism or group of similar organism for the purpose of mating, nesting, roosting or feeding?

- Territory
- Predation
- Habit
- Niche

Animals which are highly interactive with other members of its species are classified into which of the following type?

- Active animals
- Social animals
- Solitary animals
- Intelligent animals

What is a Habitat?

- Social group of certain animals of the same species, either wild or domestic.
- Association of populations of two or more different species occupying the same geographical area
- The environmental area inhabited by a particular species of animals.
- Sociographical area that an animal of a particular species consistently defends against conspecifics.

What is the reason for poaching of Elephants?

- For horn
- For Ivory
- For Skin
- For claws

What is forest encroachment?

- Permanently occupying wild habitats for the purpose of food, shelter or other purposes.
- Permanent removal of trees to make room for something besides forest.

- Conflict between species in which both the organisms or species are harmed.
- Vegetation is repeatedly removed from land and is not given enough time to grow.

Which of the following is related to reverse Zoonotic disease?

- AIDS
- Ebola
- Human Metapneumo Virus
- Encephalitis

Which of the following survey uses pug marks for wildlife census?

- Aerial survey
- Camera trap survey
- Line transect survey
- Track survey

Which of the following is disadvantage of bird flocks?

- Foraging
- Mating
- Competition
- Raising families

Which of the following animal lives in a group called as Pack?

- Dolphin
- Lion
- Reindeer
- Rat

Polar habitat is considered as which type of habitat?

- Fresh water habitat
- Terrestrial habitat
- Marine habitat
- Latitude habitat

Which of the following fish can get infected with 'Whirling disease'?

- Salmon
- Tuna
- Catfish
- Carp

The process of feeling of trees and preparing them for transport to mill is called as;

- Grafting trees
- Harvesting trees
- Transplant trees
- Off-shooting trees

The improvised National Forest Policy was introduced in which year?

- 1893
- 1947
- 1988
- 1958

Unit 3:

Name the bioactive compound found in various parts of the Neem tree.

- Azadirachtin
- Capsicine
- Vasicine
- Curcumin

Which of the following animals consumes clay for digestion?

- Deer Pig
- Reticulated python
- African lung fish
- D Common Barn owl

Which of the following is widely used in treatment of gastrointestinal and hepatic disorders ?

- A.Lac
- B.Leech extract
- C.Honey
- D.Corals

Which of the following is used in traditional treatment system for asthma and cough?

- Adathodavasica
- Artrabortysadorathismimus
- Hibiscus rosa –sinensis
- Apisfloreia

Which of the following collaborates with CSIR for setting up traditional knowledge digital library in India?

- Department of Public Health
- Department of Higher Education
- C University Grnt Commission
- D Department of AYUSH

Which of the following is non monetary gain of bioprospecting?

- Royalty payments
- B research funding
- C Social recognition
- D Ownership of IPR

State the disadvantage of bioprospecting

- Biopiracy
- B Development of IPR
- C Conservation of resources
- D Biomagnification

Why do humans practice geophagy

- A To counteract deficiency of protein
- B To counteract deficiency of Calcium and Magnesium
- C To initiate labor pain
- D To treat insomnia

Which of the following leaves is used by women from Kenya for inducing labor?

- Moringa
- Seringa
- Eucalyptus
- Celosia

Which of the following states shows high cultivation of Basmati rice with unique flavor and aroma?

- Punjab
- B.Karnataka
- C.Gujrat
- D.Maharashtra

Which of the following is used by Capuchin monkey to treat microbial infections ?

- Guava fruits
- Citrus fruits
- Avicenia stem
- Moringa leaves

Which of the following animals exhibit passive anting?

- Indian porcupine
- Cat
- Salamander
- Common otter

Which component is included in food to fight fungal infection in ants *Formica fusca*?

- Hydrogen peroxide
- isoflavinoids
- Kaolin
- Acetic acid

Which of the following is included by Red Colobus monkeys to aid the digestion process?

- Anting
- Charcoal
- Acidic soil
- Fruits of Mango

Which of the following tree leaves are believed to be used by African elephants to induce labor during pregnancy period?

- Ficus
- Almond
- Cassia
- Seringa

What is the bioactive compound derived from Adulsa and used as cough syrup?

- Quinine
- Capsicine
- Vasicine
- Curcumin

Which of the following is used as antibiotic from the ancient times in India?

- Curcuma longa
- Hibiscus rosachinensis
- Aloe vera
- Green Almond

Which of the following organisms show presence of chitin ?

- Insects
- Leeches
- Sponges
- Corals

Which of the following animal does not eat clay

- Chimpanzee
- Elephants
- Parrots
- Snakes

Monoterpenes and sesquiterpenes are not effective against

- Staphylococcus aureus
- S. epidermidis
- Pseudomonas aeruginosa
- Escherichia coli

Geophagy does not include eating _____

- Soil
- Stone
- Metal
- Clay

Streptomycin is derived from _____

- Marine sponge
- Tropical fungus
- Pseudomonas
- Bacillus thuringiensis

During menstrual cramps, Baboons eat leaves of _____

- Neem
- Banana
- Cassia
- Mango

Black ants ingest food rich in _____ to avoid fungal infection

- Salt
- H₂S
- Silica
- Ammonia

Unit 4:

Name the ocean which is surrounded by Ring of Fire.

- Indian ocean
- Pacific ocean
- Atlantic ocean
- Arctic ocean

Name the habitat for Koala.

- Eucalyptus forest of Australia
- Bamboo forest of China
- Evergreen forest of Malaysia
- Tropical forest of India

Name the characteristic animal found in Lake Baikal of Siberian subregion of Palearctic region

- Tufted deer
- Freshwater seal
- Elephant shrew

What is the North boundary of Oriental region?

- Mary river
- Rocky mountain
- Himalayas
- Congo

What are Sweep bridges?

- The bridges which are constructed by Sweep technique
- The bridges which accidentally appear on water bodies
- The bridges which connect two land masses on opposite sides of a stream
- The bridges which are cleaned by Sweep technique

What is homing instinct?

- Ability of certain animals to construct home
- Ability of animals to return to a given place if displaced from it over great distances
- Ability of animals to prepare a new resting place if displaced to new area
- Ability of animals to use nestings prepared by other animals

Which of the following region shows presence of Elephants, Rhinoceros and Civets?

- Palearctic
- Neotropical
- Oriental
- Manchurian

Which of the following region shows presence of Echidna and Duck billed Platypus?

- Australian
- Oriental
- Ethiopian
- Neotropical

Name the animal with continuous distribution

- Penguin
- African cat fish
- Brine shrimp
- Rusty spotted cat

What type of memory is used by Limpets to find their way back to the home scrape?

- Philopatric memory
- Olfactory memory
- Topographic memory
- Habitat memory

Name the largest Seal found in Antarctic region.

- Wedell Seal
- Elephant Seal
- Ross Seal
- Crab Eater Seal

Which of the following regions include Madagascar, Mauritius and Seychelles islands

- Oriental
- Neotropical
- Nearctic
- Ethiopian

State the theory proposed by Alfred Wegener.

- Big Bang Theory
- Continental Drift Theory
- Climate and Evolution Theory
- Barrier Theory

Which is the largest land bridge that connected South America with Australia during Mesozoic Era?

- Antarctica Corridor
- Panama Corridor
- Lemuria Corridor
- Arctic Corridor

Which of the following birds are found only in Ethiopian region

- Parakeets
- Secretary Bird
- Fan tailed Flycatcher
- Kiwi

Which of the following marsupials is found in North America?

- Armadillo
- Shrew
- Red Kangaroo
- Virginian Opossum

Which of the following zoogeographic region has the largest area in the world?

- Palaearctic
- Nearctic
- neotropical
- Australian

Which of the following regions show presence of Panda, Malayan Tapir and Takin?

- Nearctic
- Neotropical
- Antarctic
- Oriental

The continental drift theory is supported by fossils of which seed fern?

- *Glossopteris*
- *Blechnum*
- *Dicksonia*
- *Dicksonia*

Which of the following is not a polar animal?

- Puffin
- Reindeer
- Sloths
- Narwhal

On the basis of climatic factor rainfall, the animals and plants which live in dry places are called as;

- Hydrocoles
- Xerocoles
- Merocoles
- Mesocoles

An ability of animal to return to a given place if dispersed from it over great distance is called as;

- Fighting instinct
- Homing instinct
- Courtship instinct
- Flight instinct

Which of the following dispersal type is responsible for migration of animals like molluscs and reptiles from oceanic islands or from main-lands to adjacent islands?

- Migration by host
- Storms
- Natural rafts and driftwoods
- Human agency

Which of the following is largest realm?

- Palearctic realm
- Oriental realm
- Nearctic realm

- Australian realm

Which of the following is sub-region of Neotropical realm?

- Australian sub-region
- Mexican sub-region
- Indian sub-region
- West African sub-region