

133 PU Ph D Zoogeography

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In which biome of Africa would you find lions, giraffes, and elephants?

- Savanna
- tropical rain forest
- Chaparral
- Desert

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Which Zoogeographic region is called as living museum?

- Australian
- Palaeartic
- Ethiopian
- Oriental

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What ions are necessary for a nerve impulse to occur?

- Hydrogen and potassium
- Carbon and sodium
- Potassium and sodium
- Oxygen and carbon

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The phosphorous cycle is unusual in that it is entirely:-

- Within terrestrial ecosystems
- Sedimentary
- Gaseous
- Within aquatic ecosystems

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The prickly pear weed (*Opuntia*) menace has been successfully controlled by:-

- DDT spray
- Destroying its seeds
- Conchineal insect

- Cattle grazing

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Ecosystem consists of:-

- A biotic community
- A population
- A population and its non-living environment
- Temperature

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Frogs have ____ loop circulation, fish have ____ loop circulation.

- Five, four
- Atrial, ventricle
- Double, single
- Single, double

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Who propounded the theory of aquatic or marine origin of life?

- Thales
- Aristotle
- Spallanzani
- Erasmus Darwin

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IUCN (The International Union For Conservation Of Nature And Natural Resources) headquarters is at:-

- Vienna, Austria
- Morges, Switzerland
- Paris, France
- NewYork, USA

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The most important reason for decrease in biodiversity is:-

- Habitat destruction
- Over-exploitation
- Habitat pollution

- Introduction of exotic species

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Which of the following elements is the LEAST abundant in living organisms?

- Oxygen
- Nitrogen
- Sodium
- Phosphorous

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The situation that 'man in the midst of disease' is referred to:-

- Incubation
- Pre-pathogenesis
- Immunity
- Pathogenesis

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BOD of a river water is found very high. This means water:-

- Is clean
- Contain many dissolved mineral
- Is highly polluted
- Contain algae

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Protein molecules of plasma membrane are:-

- Hydrolytic
- Hypotonic
- Hydrophilic
- Hydrophobic

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The natural cycles that circulates elements between the earth and the environment is called:-

- Biogeochemical cycle
- Chemical cycle
- Biological cycle

- Nitrogen cycle

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Gaps between the myelin sheath along an axon are called:-

- Astrocytes
- Chromatophilic substance
- Dendrites
- Nodes of ranvier

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Cytochrome oxidases are found in :-

- On outer wall of mitochondria
- On cristae of mitochondria
- Mitochondrial matrix
- In the lysosomes

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All populations in a given physical area are defined as: -

- Ecosystem
- Territory
- Population
- Biotic community

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The most abundant chemical substance of cell wall is:-

- Cutin
- Chitin
- Pectin
- Cellulose

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Schizocoelic phyla are:-

- Platyhelminthes, Aschelminthes and Annelida
- Arthropoda, Mollusc and Echinodermata
- Protozoa, Porifera, Cnidarians, and Platyhelminthes

- Annelida, Artropoda, and Mollusca

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Mulberry silkworm is:-

- Anthreaea assamensis*
- Attacus atlas*
- Bombyx mori*
- Anthraea mylitta*

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Reasons for preserving biodiversity include all of the following except:-

- Preventing natural evolution.
- Finding new plants that can supplement the world's food supply.
- Increasing the chances of discovering organisms with medicinal value.
- Isolating unique genetic material so it can be incorporated into existing crops.

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Population which show gradual trends within zone of ecological variations are called:-

- Zonation
- Ecoclines
- Clines
- Clones

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IUCN is also called as:-

- World Conservation Union
- World Conservation Consortium
- World Wide Conservation Union
- Man and Biosphere program

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White matter appears white due to:-

- No blood supply
- Electrical charges
- Myelin

- Lack of nuclei

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The presence of gill slits in the embryos of all vertebrates supports the theory of:-

- Biogenesis
- Recapitulation
- Organic evolution
- Metamorphosis

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The boundary or transition between two or more communities which are sharply defined is called:-

- Biome
- Ecotone
- Thermocline
- Ecotype

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The most important requirement of evolution is:-

- Sexual reproduction
- Mutation
- Development abnormality
- Adaptation

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Muga silk is produced by:-

- Anthreaea roylei*
- Anthreaea mylitta*
- Anthreaea assamensis*
- Anthreaea pernyi*

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Which ecosystem does not show variation depending upon geographic location and rainfall:-

- Marine ecosystem
- Tropical ecosystem
- Desert ecosystem

- Fresh water ecosystem

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'Performance theory' of evolution states that:-

- Living things were animated by vital force
- All living forms have originated from ocean water
- All living beings have arisen from a primordial fluid
- Ova contains miniatures of the adult in preformed state

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Population dispersion is the :-

- Movement away from a natal site
- Spatial distribution of individuals
- Mixing of two population
- Movement from one fixed point to another and back again

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Caterpillar which affects coconut is:-

- Pectinophora gossypiella*
- Prodenia litura*
- Calandra oryza*
- Nephantis serenopa*

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Cutin of cell wall is composed of :-

- Glucuronic and galacturonic acid
- Fatty acids
- Monosaccharide
- Coniferyl alcohol

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A bird's wing and your arm are examples of _____.

- Homologous structures
- Genetic evidence
- Non-functioning structures

- Vestigial structures

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A mass means of protecting the greatest number of people is:-

- Sanitation
- Immunization
- Transmission
- Incubation

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The dry biomass produced annually on earth is estimated to be _____thousand million tones.

- 180
- 350
- 300
- 380

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Which of the following pairs is most closely related:-

- Frogs and salamanders
- Frogs and toads
- Frogs and catfish
- Frogs and caecilians

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Minamata disease is a pollution related disease which results from:-

- Release of industrial waste of mercury into fishing water
- Release of human organic waste into drinking water
- Oil spills into sea
- Accumulation of arsenic into atmosphere

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An endangered species is:-

- An organism brought to a place where it has not lived before.
- A species that has disappeared entirely.
- A species growing on public land.

- A species in danger of extinction.

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Which of the following is widely distributed in plant cell?

- Mitochondria
- RNA
- Chloroplasts
- DNA

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Which two biomes are the most similar with regard to rainfall?

- Temperate forest and prairie
- Tundra and desert
- Rain forest and savanna
- Tundra and taiga

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Outer and inner membranes of mitochondria are:-

- Structurally and functionally similar
- Structurally and functionally dissimilar
- Structurally similar and functionally dissimilar
- Structurally different and functionally dissimilar

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Honey is nectar:-

- Pollen obtained from flowers and stored in beehive
- Of flowers diluted by honey bee by mixing with saliva
- Of flowers processed by honey bee by mixing with saliva
- Obtained from flowers and stored in beehive

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Food levels in an ecosystem are called:-

- Herbivore levels
- Producer levels
- Consumer levels

- Trophic levels

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A black moth and a white moth live in a forest with dark-colored trees. The white moth is eaten. The black moth lives to reproduce. This is an example of _____.

- Evolution
- Gradualism
- Natural selection
- Punctuated equilibrium

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In mitochondria the first carrier of energy after the release of hydrogen from the food is usually:-

- FAD
- ADP
- NAD
- Cytochrome

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Blood leaves the atrium of the fish and goes to the:-

- Gills
- Body
- Ventricle
- Cloaca

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Embryology is:-

- The study of development of sex cells
- The study of development of plants
- The study of an individual from the fertilized egg
- The study of development of sex organs

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From which part of turmeric plant (*Curcuma longa*) the turmeric powder is obtained?

- Dried rhizome
- Dried fruit

- Dried root
- Seed

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Mitochondria are most abundant in :-

- Heart muscles
- Muscles of thigh
- Wings of birds
- Muscles of hand

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Species richness means:-

- Number of species per unit area
- Number of genetic variation in a particular area
- Number of genes in a particular species
- Number of particular species per the total number of different species in a particular area

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The important factor that has accelerated environmental problems is:-

- Ozone hole
- Water depletion
- Population explosion
- Blue revolution

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Which fin is responsible for a fish's forward movement?

- Caudal
- Dorsal
- Pectoral
- Pelvic

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The bone at the back of the skull is called the _____ bone.

- Foramen
- Parietal

- Temporal
- Occipital

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Burning fossil fuels is the main cause of :-

- Nitrous oxide pollution
- Sulphur dioxide pollution
- Nitrogen oxide pollution
- Nitric oxide pollution

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The carrying capacity of a population is determined by its:-

- Population growth rate
- Death rate
- Limiting resource
- Birth rate

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From a primary Oocyte:-

- Three eggs are produced
- One egg is produced
- Four eggs are produced
- Two eggs are produced

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The ecosystem approach to conservation is partly based on the idea that:-

- All rare species should be relocated to regional preserves.
- A healthy biosphere requires intact ecosystems.
- Human needs are of secondary importance.
- Keystone species are genetically superior to other organisms.

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The skeletal muscles are controlled by the:-

- Cerebellum
- Autonomic nervous system

- Somatic nervous system
- Brain stem

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The study of population structure is:-

- Ecology
- Demography
- Etymology
- Helminthology

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The mouth part of honey bee used to mould wax and adhere pollen is:-

- Labrum
- Ligula
- Labium
- Labellum

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What level of biodiversity is most commonly equated with the overall concept of biodiversity?

- Genetic diversity
- Species diversity
- Ecosystem diversity
- Species richness

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Acrosome present on the sperm head is derived from:-

- Golgi apparatus
- Nucleus
- Centrosome
- Endoplasmic reticulum

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In the food chain total amount of living material is depicted by:-

- Pyramid of energy
- Pyramid of emergy

- Pyramid of biomass
- Pyramid of numbers

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The theory of spontaneous generation was given by:-

- Van Helmont
- Pasteur
- Redi
- Spallanzani

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Hepatic portal system is present in all:-

- Amniotes only
- Amniotes and anamniotes only
- Amphibians and mammals
- Anamniotes only

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The author of the classical work "The origin of life on earth" is:-

- Darwin
- Urey
- Oparin
- Fox

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Blue whale is placed under:-

- Critically endangered
- Extinct
- Endangered
- Rare

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Indri-indri lemur is found in :-

- Madagascar
- India

- Mauritius
- Sri Lanka

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Complete eutrophication of a lake renders it:-

- Nutrient rich and unproductive
- Nutrient rich and productive
- Nutrient poor and productive
- Nutrient poor and unproductive

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Lotic ecosystem refers to:-

- Ecosystems of estuaries
- Deep marine water systems
- Static water system
- Ecosystem of flowing water

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Sympatric speciation occurs most commonly in:-

- Birds
- Mammals
- Plants
- Fishes

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What are the sac-like structures of endoplasmic reticulum?

- Tubules
- Thylakoides
- Cisternae
- Cristae

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The pyramid of energy is always:-

- Both upright and inverted
- Inverted

- Upright
- Inverted of forest ecosystem

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Hardy-Weinberg law is associated with:-

- Plant disease
- Population genetics
- Embryology
- Eugenics

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All are *in-situ* conservation efforts except:-

- Biosphere reserves
- Zoo
- Sanctuaries
- National parks

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Which of the following is not one of the four types of tissues?

- Nervous.
- Epithelial.
- Muscular.
- Mesodermal.

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Second order consumers are :-

- Animals feeding on plants
- Animals preying over herbivorous animals
- All heterotrophs
- Larger animals

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Which of the following processes does not occur in the endoplasmic reticulum?

- Urea cycle
- Protein glycosylation

- Fatty acid desaturation
- Fatty acid elongation

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The most outstanding danger at present for survival of living beings on earth is:-

- Desertification
- Radiation hazards
- Glaciation
- Deforestation

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Approximately, 50% of total world species are present on:-

- Coral reefs
- Temperate deciduous forest
- Tropical rain forest
- Temperate rain forest

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Ten percent law of food chain was enunciated by:-

- Elton
- Schimper
- Lindeman
- Haeckel

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Feulgen positive test is for:-

- Fats
- RNA
- DNA
- Proteins

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The symptoms of an allergic reaction develop in response to :-

- Interleukins
- Interferons

- Complement
- Histamine

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Which of the following region has maximum diversity:-

- Temperate rainforest
- Taiga
- Coral reefs
- Mangroves

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Which portion of the nephron consists of brush border striations:-

- Proximal convoluted tubule
- Distal convoluted tubule
- Collecting tubule
- Malpighian tubule

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In which type of eggs, the blastomeres, if separated, develop into whole embryo:-

- Regulative
- Non- cleidoic
- Mosaic
- Cleidoic

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Which of the following enzymes is characteristics of Golgi complex?

- Malate synthetase
- Glycosyl transferase
- Cytochrome oxidase
- Acid phosphatase

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Jelly envelope of egg membrane is found in:-

- Mammals
- Amphibians

- Fishes
- Sea urchin

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Copper is associated with which one of the following mitochondrial enzymes?

- Succinic dehydrogenase
- Acid phosphatase
- Catalase
- Cytochrome oxidase

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The storage carbohydrate in animal is:-

- Starch
- Glucose
- Cellulose
- Glycogen

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Which one of the following have only DNA (but no histones) in its chromosomes?

- Chlamydomonas
- Anabaena
- Volvox
- Yeast

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Main difference between starfishes and brittle stars is in the:-

- Structure of the ambulacral groove
- Pedicellariae
- Number of arms
- Tube feet

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The concave side of the kidney is called as:-

- Pyramid
- Cortex

- Nephron
- Hilus

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Tubulin protein is an important component of :-

- Digestive enzymes
- Rough endoplasmic reticulum
- Microtubules
- Thylakoids

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C-value paradox refers to the presence of:-

- Larger number of ribosomes than needed for polypeptide synthesis
- Less number of RNA polymerase than needed for RNA synthesis
- Less number of t-RNA than needed for polypeptide formation
- More DNA than needed for coding

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How much amount of blood supply is received by the kidneys:-

- 1100 ml /min
- 1000 ml /min
- 1500 ml /min
- 1200 ml /min

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Tonoplast a differentially permeable membrane surrounds:-

- Nucleus
- Vacuole
- Mitochondria
- Lysosome

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Nucleolus is formed of:-

- DNA and RNA
- DNA, RNA and proteins

- RNA and proteins
- RNA