

129 PU Ph.D Zoology

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The progesterone hormone is a:-

- c-15 steroids
- c-25 steroids
- c-21 steroids
- c-19 steroids

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A steroid hormone which regulates glucose metabolism is:-

- estrogen
- progesterone
- aldosterone
- Cortisol

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RNA molecules, capable of catalyzing a chemical reaction such as self-splicing are known as:-

- lysosomes
- ribozymes
- ribosomes
- isozymes

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Main difference between RBC's of man and frog is:-

- Human RBCs are without nucleus
- Human RBCs have more nuclei
- Frog's RBCs are without nucleus
- Only human RBCs have haemoglobin

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When organisms produce all of its offspring in a reproductive event, it is known as:-

- Iteroparity
- Semelparity
- Aparity

- Viviparity

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Effect of deforestation are:-

- destruction of wild life
- increase in air pollution
- desertification
- all the above

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"Sex-linked genes" refer to genes:-

- present on the sex chromosomes
- controlling both primary and secondary sexual characters
- controlling secondary sexual characters
- present in a particular sex

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The hormone which is called as fight, flight and fright hormone is:-

- Epinephrine
- Prolactin
- progesterone
- Relaxin

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The hormone that regulates menstrual cycle in human:-

- FSH and Testosterone
- FSH, LH and Estradiol
- Insulin and Glucagon
- Thyroxine and Cortisol

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Which one of the following is not the function of liver?

- It produces granulocytes
- It stores triglycerides
- It produces bile juice which helps in digestion

- It disposes off the worn out RBCs

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Which is not a locomotory organ in Protozoa?

- Flagella
- Pseudopodium
- Cilia
- Setae

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In mammals, histamine is secreted by:-

- Lymphocytes
- Fibroblasts
- Histocytes
- Mast cells

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What is the characteristic of metanephric kidney?

- Henle's loop
- Hypotonic urine production
- Excess secretion of uric acid
- Hormone production

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The most abundant lipids in eukaryotic cell membranes are:-

- Lipopolysacchrides
- Cholesterol
- Glycolipids
- Phospholipids

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Best method of variability is:-

- Standard deviation
- Mean
- Mode

- Median

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During food chain maximum energy is stored in:-

- decomposers
- primary consumers
- producers
- secondary consumers

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Unwinding of DNA is done by:-

- topoisomerase
- helicase
- exonuclease
- ligase

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The gall stones are formed of:-

- Cholesterol
- Growing infected tissue
- Sodium crystals
- Calcium

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Mendelian recombinations are due to:-

- independent assortment of genes
- mutation
- dominant characters
- linkage

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Kahn test is otherwise called:-

- Flocculation
- Complement system
- Precipitation

- Agglutination

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Formation of RNA from DNA is:-

- translation
- transcription
- replication
- recombination

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Cohorts are:-

- Different aged young
- Same aged young
- Recruits
- Reproductive elements

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Jaundice is a disease of:-

- kidneys
- liver
- duodenum
- pancreas

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Bacterial resistance to antibiotics is a generic trait that is carried in the bacteria cell in:-

- intron
- chromosome
- centromere
- plasmid

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Secretin stimulates the secretion of:-

- pancreatic bicarbonate
- acid secretion
- gall bladder contents

- liver bile juice

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The nuclear spindle is formed in:-

- Meiotic division only
- Mitotic and meiotic divisions
- Amitotic division only
- Mitotic division only

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During expiration, the diaphragm:-

- shows no change
- expands
- becomes dome shaped
- becomes flattened

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Pheromone is secreted by:-

- prostate gland
- cowpers gland
- bulbourethral gland
- anal gland

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Insertion or deletion of a nucleotide in a class of mutation resulting in a sequence of codon that makes nonsensical polypeptide chain is called:-

- lethal mutation
- inversion
- transversion
- frame shift mutation

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Most vitamins are:-

- Precursors to coenzymes
- Covalently linked to enzymes

- Synthesizes by humans
- Precursors to proteins

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The antibody produced during primary response is:-

- Ig M
- Ig E
- Ig A
- Ig D

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The primary germ layers are:-

- ectoderm, mesoderm and endoderm
- mesoderm, endoderm only
- ectoderm, endoderm only
- ectoderm, mesoderm only

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The ovarian follicle are derived from:-

- corpus luteum
- spermatozoa
- corpus albicans
- oogonia

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Colonial habit is seen in:-

- mosquitoes
- white ants
- bed bugs
- locusts

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All veins carry oxygenated blood except:-

- Pulmonary vein
- Hepatic vein

- Renal artery
- Hepatic portal vein

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The T cell which suppresses the immune response is:-

- T s cells
- T b cells
- T d cells
- T c cells

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Which enzyme catalyzes the unwinding of DNA helix during replication?

- DNA-polymerase
- Helicase
- Topoisomerase
- Primase

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F1 particles are also known as:-

- Ribosomes
- Lysosomes
- Oxysomes
- Centrosome

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Organ of flight in bats is:-

- feathers
- wings
- cuticular flaps
- patagia

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The respiratory centre is located in the:-

- Lungs
- Diencephalon

- Mid brain
- Medulla oblongata

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Chloride shift is related to the collection of:-

- Hb
- CO
- O₂
- CO₂

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Islets of Langerhans in pancreas secretes:-

- Glucagon alone
- Insulin alone
- Thyroxin
- Insulin and Glucagon

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Which of the following amino acids has single codon?

- Arginine
- Tryptophan
- Valine
- Isoleucine

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The mammalian counterpart of avian bursa of fabricus is the:-

- spleen
- bone marrow
- thymus
- liver

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Radio Immuno Assay is used to measure the:-

- proteins
- respiratory rate

- serum hormones
- excretion rate

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Which of the following sets of nerves are purely sensory?

- I, VI and VII
- I, II and VIII
- I, IX and X
- IV, V and IX

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In which animal species specific greetings like head rubbing is seen:-

- House-sparrow
- Cats
- Lizard
- Man

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Ketone bodies are formed due to metabolism of:-

- Glycogen in liver
- Glycogen in muscles
- Fats in liver
- Fats in muscle

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Person with diabetes mellitus do not produce sufficient:-

- glucagon
- sugar
- epinephrine
- insulin

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Proteins that are used only outside the cell are synthesized:-

- on the rough endoplasmic reticulum
- on free ribosomes

- in the mitochondria
- on the smooth endoplasmic reticulum

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In a simple random sampling:-

- Selection is dependent on individual characteristic
- All have equal chance of getting selected
- Suitable for large heterogenous population
- Only possible when complete sampling frame is not available

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Which histone protein is involved in the transition between the solenoid form and the extended nucleosome form?

- H1
- H4
- H2B
- H3

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Deficiency of vitamin D causes:-

- Xerophthalmia
- Pellagra
- Nyctalopia
- Osteomalacia

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The method of permanent birth control in female is:-

- Vasectomy
- Tubectomy
- Copper 'T'
- Contraceptive pills

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One of the following is not a flightless bird?

- Emu

- Apteryx
- Rheas
- Psittacula

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The changes in male sex cells just before their liberation as mature gametes are called:-

- spermiogenesis
- Spermatogenesis
- Oogeneis
- gametogenesis

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Nitrogen is an important constituent of:-

- phospholipids
- lipids
- carbohydrates
- protein

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Catadromous fishes migrate:-

- To freshwater from sea
- From river to sea
- From sea to estuary
- From estuary to sea

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The following are primary lymphoid organs except:-

- thymus
- bone marrow
- lymph node
- bursa of fabricius

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An antiglobin test is:-

- Widal

- Combs test
- ELIZA
- RIA

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The 'Suicidal' bag of an animal cell is:-

- Dictyosome
- Spherosome
- Endosome
- Lysosome

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A fish which migrate from sea to fresh water for spawning are called as:-

- Anadromous
- Stenohaline
- Euryhaline
- Catadromous

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Filtration under pressure is called:-

- semisolid filtration
- extract-filtration
- ultra-filtration
- micro-filtration

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The coiled filament of chromosome is called:-

- Centroneme
- Chromomere
- Chromonema
- Satellite

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Round worms are:-

- Pseudocoelomate

- Eucoelomate
- Haemocoelomate
- Acoelomate

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Food derived by killing other organism is:-

- Predation
- Amensalism
- Parasitism
- Protocooperation

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Which are more numerous:-

- Primary consumer
- Tertiary consumer
- Quaternary consumer
- Secondary consumer

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Term not related to amoeba is:-

- import
- holozoic
- circumvalation
- autotrophic

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Regeneration happens in:-

- tails in lizards
- fish fins
- beak in birds
- all the above

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Identify the zooplankton.

- Corals

- Jelly fishes
- Hydra
- Marine protozoans

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Size of ribosomes and their subunits are given in:-

- Svedberg unit
- Angstrom
- Microns
- Daltons

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Ribosomes are chemically composed of:-

- Protein
- Lipid only
- RNA and protein
- DNA

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Lysosomes contain destructure enzymes called:-

- Hydrolases
- Esterases
- protease
- Transferases

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The stress response is primarily controlled by:-

- Thyroid gland
- Hypothalamus
- Kidneys
- Adrenal gland

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Ladder type of nervous system present in:-

- Coelenterates

- Earth worm
- Flat worms
- Mollusks

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Cave dwelling animals have:-

- No pigment in the skin
- Upper surface dark and light lower surface
- Dark skin
- Light skin

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Buffer salts present in the blood are:-

- Potassium
- Sodium and potassium
- Cobalt
- Sodium

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Blubber is a characteristic of:-

- Aquatic mammals
- Cartilaginous fishes
- Bony fishes
- Reptiles

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Circular DNA in eukaryotes are found in:-

- Mitochondria
- Stomata
- Schwann cells
- Bundle of His

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Pepsin enzyme converts protein into:-

- Glycoprotein

- Glycopeptides
- Emulsified protein
- Polypeptides

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Body does not show any segmentation in:-

- Cockroach
- Frog
- Earth worm
- Star fish

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Under bright light animals become:-

- Tanned
- Blue coloured
- Dark coloured
- Light coloured

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Which of the following process require energy:-

- Transformation
- Restriction digestion
- Hybridization
- Ligation

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Which one has a real existence:-

- Phylum
- Class
- Genus
- Species

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Which one is not a fossil fuel:-

- Uranium

- Coal
- Natural gas
- Petrol

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The main factor responsible for water pollution is:-

- Detergent
- Industrial waste
- NH₃
- Smoke

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Decomposers are always:-

- Heterotrophs
- Autotrophs
- Primary consumers
- Saprotrophs

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The water holding capacity of which soil is maximum:-

- Silt
- Clay
- Sand
- Coarse sand

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Animals period of inactivity in summer is:-

- Hibernation
- Dormancy
- Resting
- Aestivation

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Reserve food in protozoans is:-

- Starch

- fat
- Protein
- Glycogen

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Ammonia is the waste product of:-

- Cartilage fishes
- Insects
- sponges
- snail

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Coral reefs are formed by the association of algae and:-

- Coelenterates
- Poriferans
- Protozoa
- Fungi

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The source of energy in an ecosystem:-

- Glucose
- DNA
- ATP
- Sun

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Captive breeding of endangered animal species is carried out in:-

- Laboratories
- Zoological parka
- National parks
- Sanctuaries

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The indicator species for water pollution is:-

- Tubifex

- Fishes
- Mollusks
- Zooplankton

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The first step in the PCR is:-

- Annealing
- Cooling
- Denaturation
- Primer extension

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Plant and animal classification is given by:-

- Charles Darwin
- Gregor John Mendel
- Carl Van Linnaeus
- Aristotle

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Ozone hole was discovered over:-

- Europe
- India
- Africa
- Antarctica

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The respiratory, circulatory and excretory organs are absent in:-

- Sponges
- Liver flukes
- Tapeworm
- Thread worm

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Tissue grade organization is organized from:-

- Cnidaria

- Porifera
- Protozoa
- Platyhelminthes