

132 PU Ph.D Taxonomy

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Phragmoplast is:-

- Plastid capable of fragmentation
- Plastid capable of duplication
- Cell plate formed of ER and dictyosomes (Secretory vesicles) during cytokinesis
- Cell plate formed by ER, dictyosome (secretory vesicles) and portion of spindle fibre

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Pedicellariae are modified:-

- Some other structures
- Tube feet
- Integumentary structures
- Spines

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Muscle fatigue sets in due to non availability of:-

- actin binding site
- ATP
- Calcium
- Mg cofactor

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IA new taxonomic code, PhyloCode, has been proposed as an alternate to Linnean taxonomy.

PhyloCode is based on:-

- Acquired characters
- Numerical taxonomy
- Cladistic principles
- Evolutionary systematic

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The Red Data Book which lists endangered species is maintained by:-

- WHO
- IUCN
- UNO

- WWF

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Most dangerous threat to wildlife is by:-

- Overgrazing
- Hunting
- Habitat destruction
- Introduction of exotic species

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Which of the following compound is efflorescent?

- Baking soda
- Soda-Lime
- Soda ash
- Washing soda

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The current status of taxonomy is in transition. It is changing from a focus on _____ toward a focus on _____.

- Phylogenetic taxa, numerical taxa
- Evolutionary taxa, cladistics taxa
- Numerical taxa, evolutionary taxa
- Cladistics taxa, phylogenetic taxa

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Which of the following species is restricted to a given area?

- Sibling species
- Sympatric species
- Endemic species
- Allopatric species

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A taxonomic system based only on the traits that reflect the order in time in which branches arose in a phylogenetic tree is called:-

- Phenetics
- Cladistics

- Phylogeny
- Classical evolutionary taxonomy

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Descriptive systematic botany was called by Turrill as:-

- Beta taxonomy
- Biosystematics
- Omega taxonomy
- Alpha taxonomy

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Light-sensitive sense organs in the flatworms are called:-

- Rheoreceptors.
- Auricles.
- Statocysts
- Ocelli.

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The two individuals who established the mathematical formula for calculating allelic frequency were:-

- Watson and Crick
- Laurel and Hardy
- Hardy and Weinberg
- Darwin and Wallace

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Two or more species occupying identical or overlapping areas are known as:-

- Subspecies
- Sibling species
- Sympatric
- Allopatric

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The central legislative measures called 'Wildlife (Protection) Act' was passed in:-

- 1980
- 1951

- 1977
- 1972

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Six-Kingdom classification is based on the sequence of:-

- Transfer RNA genes
- Messenger RNA genes
- Nitrogenous bases in DNA
- Ribosomal RNA genes

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Natural classification is based on:-

- Morphology
- Ontogeny'
- Both morphology and phylogeny
- Phylogeny

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The type of cleavage in frog's egg is:-

- Meroblastic
- Holoblastic equal
- Discoidal
- Holoblastic unequal

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Binomial nomenclature was introduced by:-

- Darwin
- John ray
- Carlous Linnaeus
- De candolle

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If a hypothesis is very powerful in explaining many related phenomena and is widely supported, it becomes known as a:-

- Conclusion

- Theory
- Suitable answer
- Deduction

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Starfishes are:-

- Omnivorous
- Herbivorous
- Filter feeders
- Carnivorous

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The first person to propose the concept of species was:-

- Linnaeus
- Charles Darwin
- Tournefort
- John Ray

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The crustaceans are the only arthropods with:-

- Biramous appendages
- Two pairs of antennae.
- Head, thorax, and abdomen.
- Mandibles.

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Correct sequence of stages in cell cycle is:-

- G1, S, G2, M
- G2, G1, M, S
- M, S, G1, G2
- G1, G2, S, M

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African sleeping sickness and Chagas's disease are both caused by protozoa in the genus _____.

- Plasmodium*.

- Noctiluca.*
- Toxoplasma.*
- Trypanosoma*

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Which of the following traits are unique to spiders?

- Silk glands
- Book lungs.
- Simple eyes.
- Malpighian tubules.

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Which of the following classes contains the crabs, shrimp, and krill?

- Malacostraca.
- Chilopoda.
- Branchiopoda.
- Maxillopoda.

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A taxonomic system that uses phenotypic similarities as well as judgment of homologies along a branching sequence is called:-

- Cladistics
- Classical evolutionary taxonomy
- Phenetics
- Phylogeny

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The term 'Systematics' was coined by:-

- Carlous Linnaeus
- Ernst Haecker
- De Candolle
- Copeland

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Which of the following terms best describes a cladogram?

- Polyphyly
- Phylogenetic tree
- Nested hierarchy
- Branching tree

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Who proposed phylogenetic classification of plants?

- Hutchinson
- De candolle
- Bentham and Hooker
- Linnaeus

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A flying bird lands by:-

- Folding the wings above and back of the body and coming down
- Folding the wings back and dropping on the grounds or other substratum
- Pronation and forward movements of wings
- Lowering and fanning out the rectrices

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The serum diagnosis method in plant taxonomy was pioneered by:-

- Hegenaeuer
- K.C.Mez
- Heywood
- Alston and Turner

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Natural system of classification differs from artificial system is:-

- Employing only one floral trait
- Taking only one vegetative trait
- Developing evolutionary trends
- Bringing out similarities and dissimilarities

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Static concept of species was put forward by:-

- Linnaeus
- Darwin
- De candolle
- Theophrastus

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A complicated process of growth and change converts the spermatid into a:-

- Secondary spermatocyte
- Function sperm
- Primary spermatocyte
- Spermatogonia

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Species which are able to exchange genes freely without loss of fertility or vigour is known as:-

- Superspecies
- Ecospecies
- Semispecies
- Coenospecies

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Duplication of names is avoided by the application of:-

- Homonyms
- The principal of priority
- Type concept
- Synonyms

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The term "Taxonomy" was first proposed by the French Botanist:-

- Linnaeus
- Lamarck
- Nageli
- De candolle

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Cladistic analysis indicates that the class _____ is paraphyletic and will therefore probably be further divided into many more taxa.

- Trematoda.
- Cestoda.
- Turbellaria
- Monogenea.

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Linnaeus system of classification was based on:-

- Cytology
- Embryology
- Morphology
- Ecology

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Taxonomy based on identification of evolutionary units within species by determining their genetical interrelationship is called:-

- Numerical taxonomy
- Biochemical taxonomy
- Experimental taxonomy
- Chemotaxonomy

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Who is the author of 'Species Plantarum'?

- Carlous Linnaeus
- John Ray
- Charles Darwin
- Julian Huxley

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Sponge bodies do not have organs, instead they have masses of cells supported by:-

- Oscula or spicules.
- Ostia or oscula.
- Spicules or sponging.
- Spongin or ostia

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Which one of the following sets of ions are necessary in the chemical events for muscle contraction?

- Na⁺ and Mg⁺⁺ ions
- Na⁺ and K⁺
- Ca⁺ and Mg⁺⁺ ions
- Na⁺ and Ca⁺⁺ ions

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The most widely accepted parts of Darwin's theory include:-

- Perpetual change
- inheritance of acquired characteristics
- Natural selection
- Gradualism

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The structure that is used for feeding in most molluscs is the:-

- Mouth
- buccal cavity
- Odontophore
- Radula

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Ascaris lumbricoides lives in the intestine of:-

- Homo sapiens
- Monkey
- Pig
- Sheep and goat

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A specimen or element selected by a competent worker as a substitute for an undesignated, missing or destroyed holotype is called:-

- Paratype
- Neotype
- Cotype
- Leucotype

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The first invertebrates to develop a true nervous system are:-

- Flat worms
- Sponges
- Coelenterates
- Annelids

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Phylogeny describes a species:-

- Geographic distribution
- Morphological similarities with other species
- Evolutionary history
- Reproductive compatibilities with other species

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Phylogenetic system brings about:-

- Grouping according to evolutionary trends
- Reproductive similarities
- Grouping according to morphological characters
- Grouping on the basis of increasing complexities

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Which of the taxa is not recognized by a botanist?

- Family
- Subspecies
- Species
- Order

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The life span of *Ascaris* is:-

- About an year
- More than 30 days
- six months
- 8 to 10 months

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Which of the following structures do bivalves use in the process of digestion?

- Peristaltic muscles
- A jaw
- A crystalline style
- Byssal threads

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The _____ have been extinct for 250 million years but they show the basic pattern that started the arthropods.

- Pycnogonids.
- Xiphosurids
- Crustaceans.
- Trilobites.

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In the Linnaean system of naming, a single species is identified by a binomial, which consists of the following two parts:-

- Phylum and class
- Family and genus
- Genus and species epithet
- Class and order

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Cells that secrete mucus in the epidermis of the Turbellaria are called:-

- Teguments.
- Cuticle cells.
- Parenchyma.
- Rhabdites.

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One of the following ratio is constant in DNA's of different species:-

- A+U/C+G
- A+C/T+G
- A+T/C+G

- A+G/T+C

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Egg of eutherian mammals is:-

- Centrolecithal
- Macrolecithal
- Microlecithal
- Telolecithal

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Free living platyhelminthes forms belong to the class:-

- Cestoda
- Trematoda
- Nematoda
- Turbellaria

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The mode of feeding in Leech is:-

- Omnivorous
- Sanguinivorous
- Herbivorous
- Carnivorous

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Six septa or six mesenteries are characteristic of:-

- Hydra
- Obelia
- Sea anemone
- Aurelia

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Ephyra is the larval form of:-

- Obelia
- Sea anemone
- Hydra

- Aurelia

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Head. Foot and visceral mass-this combination of characters is diagnostic of:-

- Echinoderms
- Arthropods
- Molluscs
- Annelida

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Platyhelminthes are best described as:-

- Flatworms, diploblastic, acoelomates
- Flatworms, triploblastic, acoelomate animals
- Flatworms, triploblastic, coelomates
- Flatworms, triploblastic, pseudocoelomates animals

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Fasciola hepatica is an endoparasite that lives in the:-

- Spleen of sheep
- Liver of sheep
- Intestine of sheep
- Blood of sheep

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Total marine annelids belong to the class:-

- Chaetopoda
- Oligochaeta
- Hirudinea
- Polycheta

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Which of the following includes coelomate unsegmented organisms?

- Arthropoda
- Chordata
- Annelida

- Mollusca

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Pronounced cephalisation is a characteristic:-

- Arthropoda
- Annelida
- Mollusca
- Echinoderms

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The first invertebrates to develop a true nervous system are:-

- Annelids
- Coelenterates
- Sponges
- Flat worms

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A common feature between cockroach and earthworm is:-

- Ventral nerve cord
- Cocoon formation
- Ommatidia
- Nephridia

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Internal shell is present in:-

- Pila
- Sepia
- Lamellidens
- Chiron

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Salamander belongs to the class:-

- Aves
- Reptiles
- Amphibian

- Pisces

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Parazoa includes:-

- Acidaria
- Porifera
- Cnidaria
- Echinodermata

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Most common method of reproduction in sponges is:-

- Budding
- Binary fission
- Multiple fission
- Sexual reproduction

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Chromophil cells in earthworm are concerned with the secretion of:-

- Amylase
- Coccon
- Protease
- Lipases

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Leech belongs to the class:-

- Oligochaeta
- Chaetopoda
- Hirudinea
- Polycheta

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Which of the following habitats show the highest diversity of living species?

- Tropical rainforest
- Grassland
- Temperate forest

- Desert

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Vertebrates and tunicates share:-

- The formation of structures from the neural crest
- A high degree of cephalisation
- A notochord and a dorsal, hollow nerve cord
- Jaws adapted for feeding

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Both B and T cells of immune system are produced in:-

- Spleen
- Bone marrow
- Thymus
- Lymphoid nodes

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Which of the following cellular organelles breaks down complex macromolecules, such as polysaccharides and proteins?

- Rough endoplasmic reticulum
- Golgi complex
- Mitochondria
- Lysosome

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Ink glands as a means of escape from predators are present in:-

- Unio (Pelecypoda)
- Dentalium (Scaphopoda)
- Sepia (Cephalopoda)
- Pila (Gastropoda)

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The largest *Invertebrate* is:-

- Octopus
- Architeuthis

- Sepia
- Loligo

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Some of the enzymes which are associated in converting fats into carbohydrates are present in:-

- Glyoxysomes
- Golgi bodies
- Liposomes
- Microsomes

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Which of the following systems is found in echinoderms?

- Excretory system
- Respiratory system
- Nervous system
- System of internal skeleton

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Cell membrane in animals is composed mainly of the molecules of:-

- Lipids
- Proteins
- Carbohydrates
- Lipids and proteins

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Flying frog is:-

- Pipa
- Hyla
- Rhacophorus
- Bufo

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'Pearl mother layer' is:-

- Periostracum
- Prismatic layer

- Mantle
- Nacre

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The two types of cellular organelles that transform energy are:-

- Mitochondria and chromoplasts
- Chloroplasts and leucoplasts
- Chloroplasts and leucoplasts
- Mitochondria and chloroplasts

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The disease caused by the hook worm is called:-

- Ascariasis
- Elephantiasis
- Ancylostomiasis
- Enterobiasis

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Sepia is commonly known as:-

- Cuttle fish
- Star fish
- Silver fish
- Jelly fish

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Which of the following is a type of intracellular junction between animal cells?

- Middle lamella
- Glycocalyx
- Plasmodesmata
- Desmosome

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Which of the following is called 'Blood fluke' of man?

- Schistoma
- Fasciola

- Paragonium
- Taenia

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The only fresh water species of sponges is:-

- Scypha
- Euspongia
- Oscarella
- Spongilla

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Croaking of frog is:-

- Hunger cell
- Danger cell
- Sex call for female
- Blood cell

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Mammals and living birds share all of the following characteristics except:-

- Endothermy
- Descent from a common amniotic ancestor
- An archosaur common ancestor
- A dorsal, hollow nerve cord

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Proteins that are to be used outside the cell are synthesized:-

- On the smooth endoplasmic reticulum
- On free ribosomes
- In the mitochondria
- On the rough endoplasmic reticulum

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Multiple fission occurs in:-

- Planaria
- Plasmodium

- Hydra
- E. coli

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Which of the following statements proves that mitochondria and chloroplasts are semi-autonomous bodies:-

- They are essential for respiration and photosynthesis
- They contain DNA and ribosomes
- They contain DNA
- They contain RNA