

Chapter 01

The Living World



TOPIC WISE QUESTIONS



- Q.1** Mayr proposed which type of concept of species:
 (1) Static concept
 (2) Biological concept
 (3) Topological concept
 (4) Genetic concept
- Q.2** Genus is a group of similar and related
 (1) classes (2) phyla
 (3) species (4) orders
- Q.3** Group of organisms that closely resemble each other and freely interbreed in nature, constitute a
 (1) Species (2) Genus
 (3) Family (4) Taxon
- Q.4** ICBN was first published in :
 (1) 1961 (2) 1964
 (3) 1975 (4) 1753
- Q.5** The term taxon refers to :
 (1) Name of a species
 (2) Name of genus
 (3) Name of family
 (4) A taxonomic group of any rank
- Q.6** Which book most impressed the opinion of taxonomists?
 (1) Enquiry into plants
 (2) Origin of life
 (3) Genera plantarum
 (4) Origin of species
- Q.7** The basic smallest unit of classifications is :
 (1) Genus (2) Species
 (3) Order (4) All of the above
- Q.8** The number of known and described species that are in the range of. (Approximately)
 (1) 1.3 to 1.4 million
 (2) 1.4 to 1.5 million
 (3) 1.7 to 1.8 million
 (4) 1.9 to 2.2 million
- Q.9** Plant nomenclature means :
 (1) To give names to plants without any rules
 (2) Nomenclature of plants under the international rules
 (3) Nomenclature of plants in local language
 (4) Nomenclature of plants in English Language
- Q.10** Taxonomy involves :
 (1) Plant classification (2) Plant nomenclature
 (3) Plant affinity (4) All the above
- Q.11** Which of the following is a correct name ?
 (1) *Solanum tuberosum*
 (2) *Solanum Tuberosum*
 (3) *Solanum tuberosum* Linn.
 (4) All the above
- Q.12** Systematics deals with :
 (1) Classification (2) Nomenclature
 (3) Identification (4) All of the above
- Q.13** Phylogeny refers to :
 (1) Natural classification
 (2) Evolutionary classification
 (3) Evolutionary history
 (4) Origin of algae
- Q.14** The ICZN stands for
 (1) International code of zoological notification
 (2) Internal code of zoo naming
 (3) Indian code of zoological notification
 (4) International code of zoological nomenclature
- Q.15** Who wrote 'Systema Naturae' ?
 (1) Linnaeus (2) Mayr
 (3) John Ray (4) De Candolle
- Q.16** Which do not proceed reproduction ?
 (1) Mule
 (2) Worker honeybee
 (3) Infertile human couple
 (4) All of the above
- Q.17** Who is regarded as "Darwin of 20th century"?
 (1) John Ray (2) Lamarck
 (3) Ernst Mayr (4) Darwin
- Q.18** A division is formed by combining several :
 (1) Orders (2) Families

- (3) Classes (4) Tribes
- Q.19** For declaration of new species of higher plants what characters are used :
- (1) Floral characters of new species
 - (2) Anatomical characters of new species
 - (3) Physiological character of new species
 - (4) Character of endosperm
- Q.20** Fundamental elements of taxonomy are
- (1) Characterizations and Identification only
 - (2) Characterizations, Identification and classification only
 - (3) Characterizations, Classification and Nomenclature only
 - (4) Characterizations, Identification, Classification and Nomenclature
- Q.21** Which of the following statement regarding the response of living organisms to external stimuli is correct?
- (1) The external environmental stimuli can be physical, chemical or biological
 - (2) All organisms, from the prokaryotes to the most complex eukaryotes can sense and respond to environmental stimuli.
 - (3) Consciousness and response to external stimuli is the defining property of living organisms.
 - (4) All of these
- Q.22** Most of the botanical names are drawn from the following language:
- (1) German (2) Greek
 - (3) Latin (4) Spanish
- Q.23** All the categories used in classification of organism constitute :
- (1) Taxonomy
 - (2) Systematics
 - (3) Taxonomic hierarchy
 - (4) Taxonomic affinity
- Q.24** Which of the following statements regarding nomenclature is correct ?
- (1) Generic name always begins with capital letter whereas specific name with small letter
 - (2) Scientific name should be printed in italics
 - (3) Scientific name when typed or handwritten should be underlined separately
 - (4) All the above
- Q.25** Which of the following is correct ?
- (1) Properties of tissues are not present in the constituent cells but arise as a result of interactions among the constituent cells
 - (2) Properties of cellular organelles are not present in the molecular constituents of the organelle but arise as a result of interactions among the molecular components comprising the organelle
 - (3) Both (1) and (2)
 - (4) Consciousness is the defining property of only few organisms
- Q.26** Animals, mammals and dogs represent :
- (1) Taxa at different levels
 - (2) Taxa at same level
 - (3) Different levels of same taxa
 - (4) All are correct

BIOLOGY

Q.27 Read the following statements :

- (i) Classification is a single step process
 - (ii) Classification involves hierarchy of steps in which each step represents a rank or category
 - (iii) Taxon is a unit of ecological hierarchy
 - (iv) Insects represents a species
 - (v) The taxonomic group/categories are distinct biological entities and not merely morphological aggregates
- How many of the above statements are correct?

(1) Five (2) Three (3) Two (4) One

Q.28 As we go from species to kingdom in a taxonomic hierarchy, the number of common characteristics:

- (1) Will decrease
- (2) Will increase
- (3) Remain same
- (4) May increase or decrease

Q.29 Which of the following is a defining characteristic of living organisms?

- (1) Growth (2) Ability of make sound
- (3) Reproduction
- (4) Response to external stimuli

Q.30 The number and types of organisms present on earth make :

- (1) Taxonomy (2) Plant diversity
- (3) Animal diversity (4) Biodiversity

Q.31 The process by which anything is grouped into convenient categories based on some easily observable characters is called as :

- (1) Biodiversity (2) Classifications
- (3) Identification (4) Nomenclature

Q.32 The process in which biologists follow universally accepted principles to provide name of any organism is called as :

- (1) Identification (2) Classification
- (3) Nomenclature (4) Systematics

Q.33 What are the essential basis of modern taxonomic studies?

- (1) External and internal structure
- (2) Structure of cell
- (3) Developmental process and ecological information
- (4) All of these

Q.34 Scientific names for plants and animals are respectively provided by and

- (1) ICZN, ICBN (2) ICNB, ICNCP
- (3) ICBN, ICZN (4) ICTV, ICVCN

ANSWER KEY

TOPIC WISE QUESTIONS

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	3	1	1	4	4	2	3	2	4	3	4	3	4	1
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	4	3	3	1	4	4	3	3	4	3	1	3	1	4	4
Que.	31	32	33	34											
Ans.	2	3	4	3											

