

Chapter- 01

THE LIVING WORLD

VERY SHORT ANSWER QUESTIONS (1 mark)

01. What is the classification?
02. Define metabolism.
03. What do you mean by identification?
04. Define taxonomy?
05. Who is the father of taxonomy?
06. What is systematics?
07. Who coined the term systematics?
08. Who developed the concept of new systematics?
09. What is biological diversity? Write the number of species present on earth.
10. Who was the first taxonomist to use the term species?

SHORT ANSWER TYPE QUESTIONS (2 marks)

11. Why is the binomial system of nomenclature acceptable to biologists all over the world?
12. List 4 differences between anabolism and catabolism.
13. Why is consciousness considered as a defining feature of living beings?
14. Write a brief note on the monograph and manual.
15. Define the following terms
(a) Phylum (b) Class (c) Family (d) Order
16. What are the biological names of the following:-
(a) Mango (b) Rice (c) Fruit fly (d) Yeast
17. Define the following.
(a) Subspecies (b) Variety (c) Race (d) Key

SHORT ANSWER TYPE QUESTIONS (3 marks)

18. How does a hierarchical system of classification help scientists to unravel the mystery of the living world?
19. List out the functions of the zoological parks.
20. Write any three advantages of scientific names. Give three examples.
21. What is an obligate category? How is it different from intermediate categories?
22. Distinguish between the followings:-

- (a) Systematic and taxonomy
(c) Species and taxon
- (b) Artificial and Natural system of classification
(d) Museum and Herbarium

23. Write the universal rules of binomial nomenclature.
24. Define the taxonomic hierarchy? List the taxonomic categories used in the classification of an organism?

LONG ANSWER TYPE QUESTIONS (5 marks)

25. What do you mean by herbarium? Explain the various steps involved in the preparation of herbarium specimens.
26. What is the taxonomic key? Discuss its types, with suitable examples.
27. Describe in detail the taxonomic hierarchy with two suitable examples.

HOTS/MODEL QUESTIONS:

01. What is nomenclature?
02. Who is the father of binomial nomenclature?
03. Expand the following:-
(a) ICBN (b) ICZN
(c) ICBac (d) ICNCP
04. Define a hierarchy?
05. What is a genus?
06. What is taxon?
07. Who is the father of nomenclature?
08. What are the species?
09. Define cultivar and give an example.
10. What is an artificial system of classification? Give one example.
11. Define the natural system of classification?
12. What is a phylogenetic classification?
13. What is a Catalogue?
14. What is the need for classification?
15. Define neosystematics?
16. On what basis 'Neo Systematics' differs from 'Classical'?
17. What were the reasons for discarding the idea of fixity of species?

- 18.** Botanical gardens are living herbaria. Justify.
- 19.** Some of the properties of tissues are not constituents of their cells. Give three examples to support the statement.