

# **CLASS XI BIO CH: 1**

## **MCQ Set 1: The Living World**

1. Biology is the science of:
  - a) Chemical reactions
  - b) Life forms and living processes
  - c) Physical laws
  - d) Celestial bodies
2. The earliest classifications by humans were based on the:
  - a) Evolutionary relationships
  - b) 'Uses' of various organisms
  - c) Genetic makeup
  - d) Cellular structure
3. The sense of awe or fear was evoked in early humans by:
  - a) Only living organisms
  - b) Only inanimate objects
  - c) Both inanimate and animate objects
  - d) Only other humans
4. The systematic arrangement of organisms is known as:
  - a) Nomenclature
  - b) Classification
  - c) Identification
  - d) Characterization
5. The term 'systematics' is derived from the Latin word:
  - a) Systema
  - b) Biologia
  - c) Taxus
  - d) Nomen
6. The purpose of nomenclature is to:
  - a) Classify organisms into groups
  - b) Standardize the naming of organisms globally
  - c) Identify evolutionary relationships
  - d) Describe the internal structure of organisms
7. The International Code for Botanical Nomenclature (ICBN) provides principles for naming:
  - a) Animals
  - b) Plants

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- c) Bacteria
- d) Fungi

8. A scientific name ensures that each organism has:

- a) Multiple names
- b) Only one name
- c) A name based on its habitat
- d) A name in every language

9. Binomial nomenclature was given by:

- a) Ernst Mayr
- b) Charles Darwin
- c) Carolus Linnaeus
- d) Robert Whittaker

10. The scientific name of mango is:

- a) Mangifera Indica
- b) Mangifera indica
- c) mangifera indica
- d) Mangifera indica

11. In the name *Mangifera indica*, 'indica' represents the:

- a) Genus
- b) Specific epithet
- c) Family
- d) Order

12. Biological names are generally written in:

- a) English
- b) Greek
- c) Latin
- d) French

13. The first word in a biological name represents the \_\_\_\_\_ and starts with a \_\_\_\_\_ letter.

- a) Species, small
- b) Genus, capital
- c) Family, capital
- d) Order, small

14. The author's name in a biological name is written:

- a) Before the genus name
- b) After the specific epithet, abbreviated

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- c) In full after the species name
- d) Underlined separately

15. The process of grouping organisms into categories based on observable characters is called:

- a) Identification
- b) Nomenclature
- c) Classification
- d) Characterization

16. The scientific term for categories used in classification is:

- a) Taxa
- b) Units
- c) Groups
- d) Classes

17. The branch of study that includes evolutionary relationships is:

- a) Taxonomy
- b) Systematics
- c) Morphology
- d) Ecology

18. The lowest taxonomic category is:

- a) Genus
- b) Family
- c) Species
- d) Order

19. A group of individuals with fundamental similarities is called a:

- a) Genus
- b) Family
- c) Species
- d) Order

20. The genus *Panthera* includes:

- a) Cats, dogs, and lions
- b) Lions, tigers, and leopards
- c) Potatoes and brinjals
- d) Mango and wheat

21. The family Solanaceae includes the genera:

- a) *Panthera* and *Felis*
- b) *Solanum*, *Petunia*, and *Datura*

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- c) Mangifera and Triticum
- d) Homo and Musca

22. The order Polynomiales includes families like:

- a) Felidae and Canidae
- b) Solanaceae and Convolvulaceae
- c) Hominidae and Muscidae
- d) Anacardiaceae and Poaceae

23. The class Mammalia includes the order:

- a) Diptera
- b) Carnivora
- c) Sapindales
- d) Poales

24. Phylum Chordata includes animals with:

- a) Jointed legs
- b) Notochord and dorsal hollow neural system
- c) Wings
- d) Scales

25. The highest taxonomic category for animals is:

- a) Phylum
- b) Class
- c) Kingdom
- d) Order

26. The taxonomic hierarchy in ascending order is:

- a) Kingdom → Phylum → Class → Order → Family → Genus → Species
- b) Species → Genus → Family → Order → Class → Phylum → Kingdom
- c) Species → Family → Genus → Order → Class → Phylum → Kingdom
- d) Kingdom → Class → Phylum → Order → Family → Genus → Species

27. As we move from species to kingdom, the number of common characteristics:

- a) Increases
- b) Decreases
- c) Remains the same
- d) First increases then decreases

28. The scientific name of housefly is:

- a) Musca domestica
- b) Musca Domestica
- c) musca domestica
- d) Musca domesticus

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29. The family of humans is:

- a) Hominidae
- b) Muscidae
- c) Felidae
- d) Canidae

30. Wheat belongs to the division:

- a) Dicotyledonae
- b) Monocotyledonae
- c) Angiospermae
- d) Gymnospermae

31. The genus of wheat is:

- a) Triticum
- b) Oryza
- c) Mangifera
- d) Solanum

32. The order of mango is:

- a) Poales
- b) Sapindales
- c) Primata
- d) Diptera

33. The class of housefly is:

- a) Insecta
- b) Mammalia
- c) Arachnida
- d) Crustacea

34. The phylum of housefly is:

- a) Chordata
- b) Arthropoda
- c) Annelida
- c) Mollusca

35. The species of human is:

- a) Homo
- b) sapiens
- c) Hominidae
- d) Primata

36. Taxonomy is based on:

- a) Only external structure

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- b) Only internal structure
- c) External and internal structure, cell structure, development, and ecology
- d) Only reproductive features

37. The word 'taxon' refers to:

- a) A group of related families
- b) A unit of classification
- c) A scientific name
- d) An evolutionary process

38. The process of correct description of an organism is called:

- a) Identification
- b) Nomenclature
- c) Classification
- d) Systematics

39. The title of Linnaeus's publication was:

- a) Origin of Species
- b) Systema Naturae
- c) Genera Plantarum
- d) Philosophie Zoologique

40. Modern taxonomy includes the study of:

- a) Only morphology
- b) Morphology, ecology, and cytology
- c) Only genetics
- d) Only fossil records

41. Which of the following is a taxon?

- a) Dog
- b) Mammal
- c) Animal
- d) All of the above

42. The taxonomic category 'order' is the assemblage of:

- a) Species
- b) Genera
- c) Families
- d) Classes

43. The genus *Solanum* includes:

- a) Potato and brinjal
- b) Lion and tiger

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- c) Mango and wheat
- d) Human and monkey

44. The family Felidae includes:

- a) Cats and dogs
- b) Lions and cats
- c) Tigers and dogs
- d) Lions and monkeys

45. The class Dicotyledonae includes:

- a) Wheat
- b) Mango
- c) Rice
- d) Maize

46. The term 'species' was defined by:

- a) Linnaeus
- b) Darwin
- c) Ernst Mayr
- d) Whittaker

47. The number of known species ranges between:

- a) 1.7-1.8 million
- b) 2-3 million
- c) 0.5-1 million
- d) 5-6 million

48. The binomial name of lion is:

- a) *Panthera leo*
- b) *Panthera tigris*
- c) *Felis leo*
- d) *Leo panthera*

49. The correct way of writing the scientific name of mango is:

- a) *Mangifera Indica*
- b) *Mangifera indica*
- c) *mangifera indica*
- d) *MANGIFERA INDICA*

50. The taxonomic hierarchy helps in:

- a) Only identification
- b) Only nomenclature
- c) Understanding relationships and organizing diversity
- d) Only evolutionary studies

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## **Answers: Set 1**

1. b) Life forms and living processes
2. b) 'Uses' of various organisms
3. c) Both inanimate and animate objects
4. b) Classification
5. a) Systema
6. b) Standardize the naming of organisms globally
7. b) Plants
8. b) Only one name
9. c) Carolus Linnaeus
10. b) *Mangifera indica*
11. b) Specific epithet
12. c) Latin
13. b) Genus, capital
14. b) After the specific epithet, abbreviated
15. c) Classification
16. a) Taxa
17. b) Systematics
18. c) Species
19. c) Species
20. b) Lions, tigers, and leopards
21. b) *Solanum*, *Petunia*, and *Datura*
22. b) Solanaceae and Convolvulaceae
23. b) Carnivora
24. b) Notochord and dorsal hollow neural system
25. c) Kingdom
26. b) Species → Genus → Family → Order → Class → Phylum → Kingdom
27. b) Decreases
28. a) *Musca domestica*
29. a) Hominidae
30. c) Angiospermae
31. a) *Triticum*
32. b) Sapindales
33. a) Insecta
34. b) Arthropoda
35. b) *sapiens*
36. c) External and internal structure, cell structure, development, and ecology
37. b) A unit of classification
38. a) Identification



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- 39. b) Systema Naturae
- 40. b) Morphology, ecology, and cytology
- 41. d) All of the above
- 42. c) Families
- 43. a) Potato and brinjal
- 44. b) Lions and cats
- 45. b) Mango
- 46. c) Ernst Mayr
- 47. a) 1.7-1.8 million
- 48. a) *Panthera leo*
- 49. b) *Mangifera indica*
- 50. c) Understanding relationships and organizing diversity

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