



BIOLOGY

BOOKS - MAXIMUM PUBLICATION

THE LIVING WROLD

Example

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

A. Will decrease

B. Will increase

C. Remain same

D. May increase or decrease

Answer:



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2. Which of the following 'suffixes' used for units of classification in plants indicates a taxonomic category of 'family'.

A. —Ales

B. —Onae

C. —Aceae

D. none of the above

Answer:



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3. The term 'systematics' refers to:

A. Identification and classification of plants
and animals

B. Nomenclature and identification of
plants and animals

C. Diversity of kinds of organisms and their
relationship

D. Different kinds of organisms and their
classification

Answer:



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4. Genus represents

A. An individual plant or animal

B. A collection of plants or animals

C. Group of closely related species of
plants or animals

D. None of these

Answer:



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5. The taxonomic unit 'Phylum' in the classification of animals is equivalent to which hierarchical level in classification of plants

A. Class

B. Order

C. Division

D. Family

Answer:



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6. Correct and rewrite the following if there is any mistake

Sativa Oriza, Tigris Panthera



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7. Kingdom - Camivora

phylum - Mammalia

Class - Felidae

Order - Chordata

Family - Tigris

Genus - Animalia

Sps - Panthera

Correct the mistakes of the flow chart to get the hierarchial arrangement of tiger in the ascending order.



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8. Match the following -

a) A Unit of classification - Kingdom

b) Lowest taxonomic category - Genus

c) Panthera - Species

d) Highest Taxonomic category - Taxon



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9. Expand the term ICBN and ICZN.



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10. Given below is the scientific name of Frog.

Identify the correctly written name.

a) Rana Tigrina b) Rana tigrina



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11. Rearrange the order of classification. Genus, Family, Phylum, Species, Class, Kingdom, Order



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12. Arrange the given terms in their taxonomic hierarchy. Primata, Homosapien, Chordata, Mammalia, Hominidae.



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13. You are provided with a stuffed rabbit and a dried leaf. As a student of biology which taxonomic aid will you choose to store them



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14. Find the odd one out and give reason.
Herbarium, botanical garden, museum,
aquarium



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15. Once you visited a museum. There are different kinds of animals and plants are preserved.

How these plants and animals all preserved in a museum.



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16. Zoological parks are different from museums. Give reason?



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17. Raju collected a skull of an animal and a living rare animal during a study tour. Select the suitable location for each from the list given in the bracket. [Botanical garden, zoological parks, Herbarium, museum



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18. Distinguish between taxonomic category and taxonomic hierarchy.



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19. Write the scientific name of following animals.

a) Lion

b) Frog

c) House fly

d) Tiger



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20. Fill the blank spaces in the table given below

Location	Plants/Animals	Dead/Live
Herbarium	a	Dead
Botanical	Plants	b
c	Animals and	Dead
Zoological park	Animals



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21. *Panthera leo* is the scientific name of Lion.
List the rules you follow to write this scientific name.



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22. List the advantages of

- a) Taxonomical key
- b) Herbarium



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23. Give the terms.

- a) The actual account of habitat and distribution of plants of a given area.

b) Providing information for identification of names of species found in an area.

c) Contain information on any one taxon.

d) Identification of plants and animals based on the similarities and dissimilarities.



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24. Define a taxon. Give some examples of taxon at different hierarchical levels.



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25. A student placed man and house fly in the following taxonomic categories. Some of them are wrongly placed. Identify and correct them.

Common name	Species	Genus	Family	Order	Class
Man	Sapiens	Homo	Primata	Hominidae	Mammalia
House fly	Domestica	Musca	Muscidae	Insecta	Diptera



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26. Note the relationship between the first two words and suggest suitable words for the fourth place

a) Collection of living plants : Botanical

garden, animals kept in protected environment:

b) Homo sapiens : Man, Musca domestica :
.....



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27. Align the taxonomic categories in the ascending order.

Genus → Family → Order → Class →

Species → Phylum → Kingdom.



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28. During the field trip a group of students collected some organisms with following characters. Help them to identify the phyla of those organisms.

- a) Dorsoventrally flattened and leaf like body.
- b) Jelly like body with eight ciliated combplates.
- c) Body covered with calcareous shell.
- d) Spiny skinned body with radial symmetry.



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29. Taxonomical aids are very useful for classification and identification of organisms.

Name any two taxonomical aids.



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30. Categorise the following terms into two.

Give suitable title for each category.

Species, Museum, Class, Genus, Zoological park, Herbarium.



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31. After completing a project study based on diversity of spiders, the specimens were intended to be stored for future reference. Select a suitable taxonomical and from the following for the preservation of specimens.

- a) Herbarium b) Museum
- c) Zoological park d) Sanctuary

Justify your answer.



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32. Observe the relationship between the first two tens and fill up the blank :

Hyperglycemic hormone : Glucagon

Hypoglycemic hormone :



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33. Align the taxonomic categories in the ascending order.

Genus → Family → Order → Class →

Species → Phylum → Kingdom.





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34. Rearrange both the biological category and Taxon based on taxonomical hierarchy.

[Hint - The last two terms of taxon will give the scientific name of housefly]

Category	Taxon
Phylum	Musca
Genus	Insecta
Class	Arthropoda
Species	Domestica



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35. Complete the table using suitable terms

Common Name	Genus	Species	Class	Phylum
പൊതുനാമം	ജീനസ്	സ്പീഷീസ്	ക്ലാസ്സ്	ഫൈലം
Man	Sapiens	Mammalia
മനുഷ്യൻ	സാപ്പിയൻസ്	മാമേലിയ



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36. Raju collected a skull of an animal and a living rare animal during a study tour. Select the suitable location for each from the list given in the bracket. [Botanical garden, zoological parks, Herbarium, museum



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37. Observe the first pair of words and write a suitable word for the second pair.

Botanical garden : Living plants

..... : Living animals



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38. Rearrange the order of classification.

Genus, Family, Phylum, Species, Class, Kingdom,

Order



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39. What do we learn from identification of individuals and populations?



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40. Can you identify the correct sequence of taxonomical categories?

a) Species → Order → Phylum →

Kingdom

b) Genus → Species → Order →

Kingdom

c) Species → Genus → Order → Phylum



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41. Why are the classification system changing every now and then?



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42. Define a taxon. Give some examples of taxa at different hierarchical levels.



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43. Binomial nomenclature is described in the book

A. Genera Plantarum

B. Historia Plantarum

C. Systema Naturae

D. Flora Japonica

Answer:



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44. Which of the following is not the main criteria for five kingdom system of classification?

- A. Cell structure and thallus organization
- B. Mode of nutrition and reproduction

C. Phylogenetic relationship.

D. Gram staining

Answer:



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45. Two plants can be conclusively said to belong to the same species if they

A. can reproduce freely with each other
and form seeds

B. have more than 90 percent similar genes

C. look similar and possess identical
secondary metabolites

D. have same number of chromosomes

Answer:



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46. Expand the term ICBN and ICZN.

A. International code of Botanical
Nomenclature

B. International code of Zoological
Nomenclature

C. international code of Viral Nomenclature

D. International code of Zoo Nomenclature

Answer:



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47. *Mangifera indica* L., Generic epithet is

A. Indica

B. *Mangifera*

C. Linnaeus

D. None of these

Answer:



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48. Expand the term ICBN and ICZN.

A. Indian Congress of Biological Names

B. International Code of Botanical
Nomenclature

C. International Congress of Biological
Names

D. Indian Code of Botanical Nomenclature

Answer:



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49. A taxon is (a) A group of related plants or animals (b) A type of living organism (c) A group of related families (d) A taxonomic group of any rank

A. taxonomic group of any rank

B. procedure to assign a scientific name

C. process of classification

D. process by which any thing is grouped

into convenient categories based on

characters

Answer:



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50. Which of the following is famous for stating that "Population increases much faster than its food supply"?

A. Fredrick Losch

B. R Virchow

C. T R Malthus

D. Karl Von Baer

Answer:



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51. Reproduction is the characteristic feature of living organisms. Which of the following can not reproduce

A. Amoeba and Paramecium

B. Fungi and filamentous algae

C. Humans and Ayes

D. Mules and worker bees

Answer:



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52. *Nicotiana sylvestris* flowers only during long days and *N.tobacum* flowers only during short days. If raised in the laboratory under different photoperiods. they can be induced to

flower at the same time and can be cross fertilized to produce self-fertile offspring. What is the best reason for considering *N. sylvestris* and *N. tuberosum* to be separate species?

- A. They are physiologically distinct
- B. They are morphologically distinct
- C. They cannot interbreed in nature
- D. They are reproductively distinct

Answer:



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53. Which of the following book is not associated with Carolus Linnaeus, the father of Taxonomy and Nomenclature?

A. Systema Naturae

B. Genera Plantarum

C. Species Plantarum

D. Historia Generalis Plantarum

Answer:



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54. Philosophie Zoologique, a book written by Jean Baptiste de Lamarck is based on

- A. Survival of the fittest
- B. Natural Selection
- C. Inheritance of acquired characters
- D. Biogenetic law

Answer:



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55. Philosophie Zoologique, a book written by Jean Baptiste de Lamarck is based on

- A. Lamarck
- B. Mendel
- C. Haeckel
- D. Hugo de Vries

Answer:



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56. Binomial nomenclature was introduced by

A. Linnaeus

B. Darwin

C. Aristotle

D. de Candoile

Answer:



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