



BIOLOGY

BOOKS - A2Z BIOLOGY (HINGLISH)

THE LIVING WORLD

Section A Topicwise Questions Topic 2 Diversity in The Living World

1. Select the wrong statement about the rules of binomial nomenclature.

A. Name of the author appears after the specific epithet and written in abbreviated form.

B. Both the words in a biological name, when handwritten, are separately underlined to indicate their italic origin.

C. Biological names are printed in italics to indicate their latin origin.

D. Biological names are latinised or derived from latin irrespective of their origin.

Answer: B



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2. Human beings were since long, not only interested in knowing more about different kinds of organisms and their diversities, but also the relationship among them. This branch of study is referred to as

A. Classification

B. Systematics

C. Taxonomy

D. All of the above

Answer: B



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3. Which of the following are the basic processes of taxonomy?

A. Characterisation and classification.

B. Identification and nomenclature

C. Both A and B

D. None of the above

Answer: C



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4. Nomenclature or naming is only possible when the organism is described correctly and we know to what organism the name is attached to. This is

A. Taxonomy

B. Classification

C. Identification

D. Binomial system.

Answer: C



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5. Each different kind of plant, animal or organism that you see, represents a

A. Species

B. Genus

C. Population

D. Family

Answer: A



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6. In mangifera indica, indica indicates

A. Name of the genus

B. Name of the species

C. Specific epithet

D. Both B and C

Answer: D



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7. There is a need to standardise the naming of living organisms such that a particular organism is known by the same name all over the world. This process is called.

A. Systematics

B. Nomenclature

C. Cytotaxonomy

D. Taxonomy

Answer: B



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8. Which ensure that each organism has only one name all over the world?

A. Scientific name

B. Local name

C. Trivial name

D. All of the above

Answer: A



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9. Which naming system is practised by biologists all over the world?

A. Binomial system

B. Trivial system

C. Artificial system

D. All of the above

Answer: A



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10. The process by which anything grouped into convenient categories based on some easily observable characters is called.

A. Systematics

B. New systematics

C. Nomenclature

D. Classification

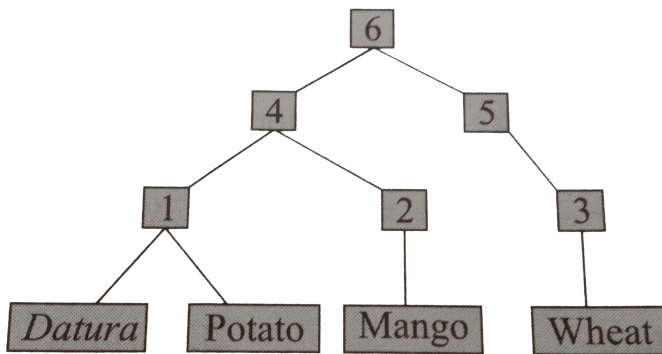
Answer: D



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**Section A Topicwise Questions Topic 3 Taxonomic
Categories Species Genus Family Order C**

1. Recognise the following flow diagram and find the correct option according to taxonomic hierarchy.



A. 1-Polymoniales, 2-Sapidales, 3-Poales, 4-

Dicotyledonae, 5-Monocotylednae, 6-

Angiospermae

B. 1-Solanaceae, 2-Anacardiaceae, 3-
Poaceae, 4-Polymoniales, 5-Poales, 6-
Angiospermae

C. 1-Dolanum, 2-Mangifera, 3-Triticum, 4-
Dicotyledonae, 5-Monocotyledonae, 6-
Plantae

D. 1-Polymoniales, 2-Sapindales, 3-Poales, 4-
Angiospermae, 5-Monocotyledonae, 6-
Platae

Answer: A



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Kingdom



4



5



1



2



3



Species

In the following flow diagram, identify the correct categories according to the taxonomic hierarchy.

a. Primata, diptera and carnivora belong the category '1'

b. Petunia, datura and solanum belong to same catagory '2'

c. Angiospermae belongs to category 'g'

d. Man and dog show maximum similarity at catagory '4'

e. Category '3' is same for lion, tiger and leopard

Select the correct statements:

A. a,b,d,e

B. b,c,d,e

C. a,b,c

D. a,b,e

Answer: D



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3. Which taxon have maximum number of similar characters?

A. Class

B. Kingdom

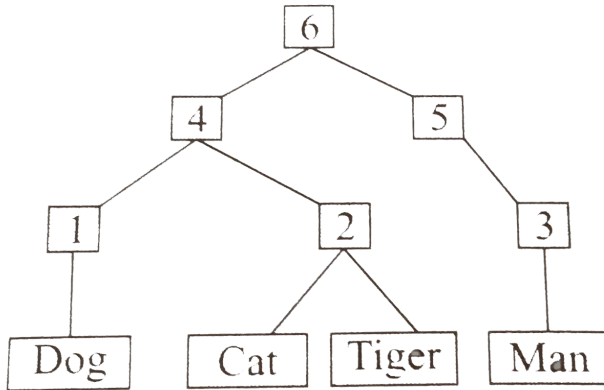
C. Species

D. Family

Answer: C



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4.

Recognise the following flow diagram and find the correct option according to taxonomic hierarchy.

A. 1-Canis, 2-Felis, 3-Homo, 4-Felidae, 5-

Hominidae, 6-Primata

B. 1-Canidae, 2-Felidae, 3-Hominidae, 4-

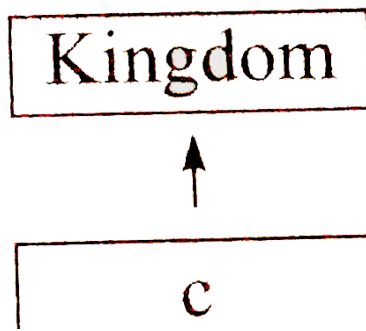
Carnivora, 5-Primata, 6-Mammalia

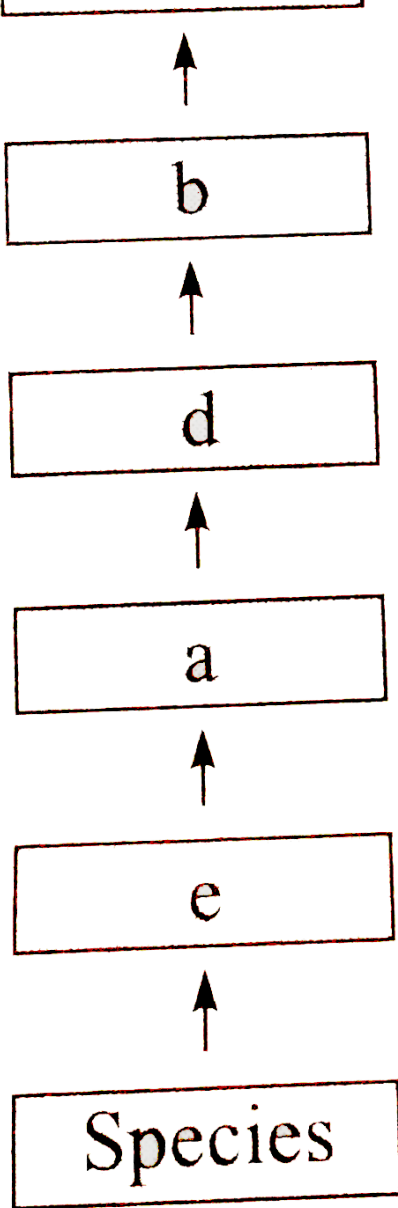
C. 1-Canidae, 2-Felidae, 3-Hominidae, 4-
Carnivora, 5-Mammalia, 6-Chordata

D. 1-Canis, 2-Felis, 3-Homo, 4-carnivora, 5-
Primata, 6-Mammalia

Answer: B

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5.

1. Wheat and mango belong to same category

'b'

2. Potato, brinjal and makoi belong to same category 'e'

3. Muscidae, anacardiaceae and angiospermae belong to category 'a'

4. Gorilla, gibbon and chimpanzee belong to same category 'd'

5. Dicotyledonae and monocotyledonae belong to category 'c'

Select the correct statement:

A. 4,2,3

B. 1,3,5

C. 2,4

D. 5,2,4

Answer: C



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6. Which of the following taxa has least number of similar characters?

A. Order

B. Family

C. Divison

D. Class

Answer: C



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7. In which of the following taxa, other three are included itself?

A. Phylum

B. Order

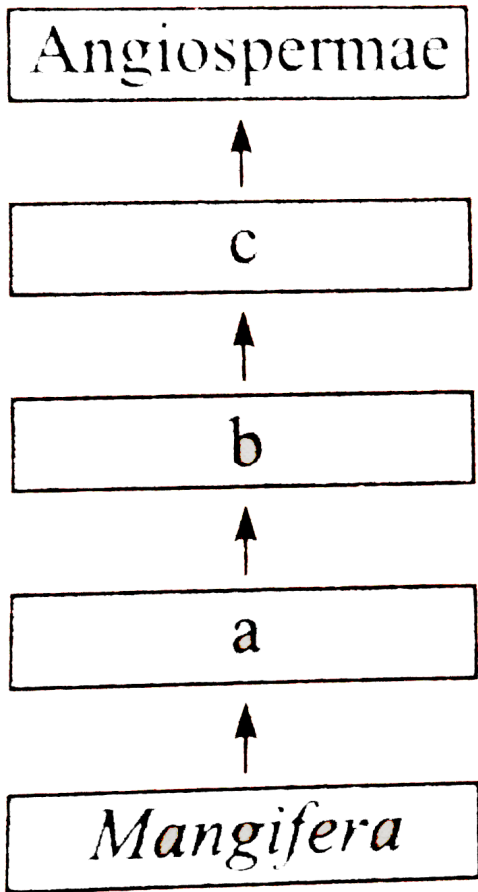
C. Class

D. Family

Answer: A



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8.

Recognise the following flow diagram and find the correct options according to taxonomic heierarchy.

A. 'a' is comparable to muscidae while 'b' is at the same level as that of primata.

B. 'c' Includes all the angiosperms having two cotyledons in their seeds.

C. For wheat 'a' is poacea, 'b' is poales and 'c' is monocotyledonae.

D. All of the above are correct statement

Answer: D



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9. The species (man, housefly, mango, wheat, dog, cat, lion, tiger, potato, brinjal, makoi and leopard) given here belong to how many different families?

A. 4

B. 7

C. 5

D. 6

Answer: B



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10. If two plants belong to the same division but in different orders, they may belong to the same.

A. Genus

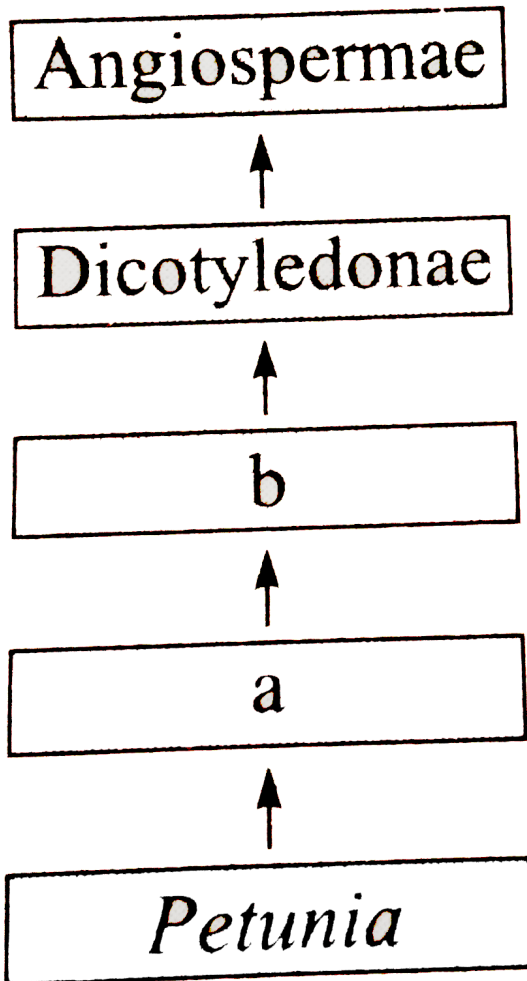
B. Family

C. Class

D. Species.

Answer: C





11.

Recognise the following flow diagram and find

the correct option according to taxonomic hierarchy.

A. a-Sapindales, b-Anacardiaceae

B. a-Polymoniales, b-Convolvulaceae

C. a-Polymoniales, b-Solanaceae

D. a-Solanaceae, b-Polymoniales

Answer: D



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12. Tiger and cat are placed in the same

A. Genus

B. Family

C. Class

D. Both B and C

Answer: D



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13. Unit of classification is

A. Taxon rank

B. Category

C. All of the above

D.

Answer: c



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14. Wheat and mango belongs to the same

A. Order

B. Class

C. Divison

D. Both B and C

Answer: C



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15. Lion and tiger are placed in the same

A. Genus

B. Family

C. Order

D. All of the above

Answer: D



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16. Genus solanum includes

1. Potato

2. Brinjal

3. Datura

4. Tulip.

A. 1,3

B. 1,2

C. 1,4

D. 1,2,3

Answer: B



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17. Cat and dog show maximum similarity at which taxon

A. Genus

B. Family

C. Order

D. Class

Answer: C



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18. Brinjal, makoi and potato are not placed in the same

A. Genus

B. Division

C. Class

D. Species.

Answer: D



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19. man and housefly are placed in the same

A. Order

B. Class

C. Phylum

D. Kingdom

Answer: D



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20. Order of felidae and canidae is

A. Sapindales

B. Primata

C. Carnivora

D. Polymiales

Answer: C



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21. Order' related to "brinjal' is

A. Poales

B. Sapindales

C. Polymoniales

D. Dicotyledonae

Answer: C



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22. In wheat and makoï maximum similarity occurs at the level of

A. Family

B. Class

C. Division

D. Order

Answer: C



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23. Tiger and dog are placed in the same

A. Genus

B. Family

C. Class

D. Both B and C

Answer: C



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24. In case of plants, classes with a few similar characters are assigned to a higher category called.

A. Phylum

B. Division

C. Order

D. Kingdom

Answer: B



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25. The closest category of family is

A. Phylum

B. Class

C. Order

D. Species.

Answer: C



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26. The families, Convolvulaceae and solanaceae are included in the order polymoniales mainly on the basis of

A. Vegetative characters

B. Morphological characters

C. Floral characters

D. Both A and B

Answer: C



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27. Carnivora includes the

A. Tigers

B. Cats

C. Dogs

D. All of the above

Answer: D



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28. Primata and Carnivora are placed together
in the same

A. Order

B. Division

C. Family

D. Class

Answer: D



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29. Which is not a primate?

A. Tiger

B. Monkey

C. Gorilla

D. Gibbon

Answer: A



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30. Connecting link between kingdom and class in plant hierarchy is

A. Phylum

B. Order

C. Family

D. Division

Answer: D



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31. The category situated in the middle of hierarchical arrangement is

A. Division

B. Class

C. Order

D. Family

Answer: C



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32. Fishes, amphibians, reptiles, birds and mammals constitute in the same category, called

A. Division

B. Phylum

C. Order

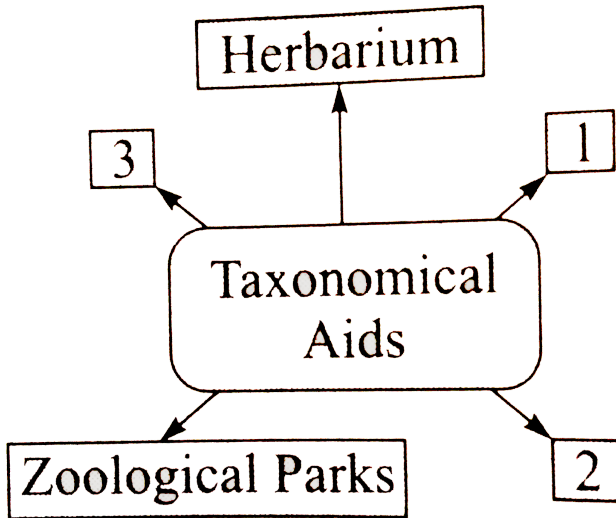
D. Class

Answer: B



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**Section A Topicwise Questions Topic 4
Taxonomical Aids Herbarium Botanical Gardens
Museum**



1.

Fill in the blanks according to taxonomical aids.

A. 1-Flora, 2-Kingdom, 3-Botanical gardens

B. 1-Catalogues, 2-Keys, 3-Species

C. 1-Botanical garden, 2-Museum, 3-Keys

D. 1-Monographs, 2-Oder, 3-Manuals

Answer: C



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2. Taxonomical keys are

A. Analytical in nature

B. Taxonomical aid used for identification
of both plants and animals

C. Based on the contrasting characters

D. All of the above

Answer: D



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3. The taxonomical aid(s) used for the identification of both plants and animals is /are

A. keys

B. Museum

C. Herbarium

D. Both A and B

Answer: D



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4. Which of the following are true with reference to taxonomical aids?

1. Separate taxonomic keys are required for each taxonomic category.

2. Herbarium is a store house of collected

plant and animal specimens.

3. Each statement in the key is called couplet.

4. Keys are used for identification purpose.

A. 1 and 2

B. 1 and 4

C. 1 and 3

D. 3 and 4

Answer: B



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5. Which of the following taxonomical aid serve as a quick referral systems in taxonomical studies?

A. keys

B. Botanical gardens

C. Herbaria

D. Museum

Answer: C



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6. Which is useful in providing information for identification of names of species found in an area?

A. Flora

B. Manuals

C. Monographs

D. Catalogues

Answer: B



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7. Identification of organisms requires intensive

A. Field studies

B. Laboratory studies

C. Habitat studies

D. Both A and B

Answer: D



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8. Which is essential and is the prime source of taxonomic studies of plants and animals?

A. Identification

B. Nomenclature

C. Classification

D. Collection of actual specimens.

Answer: D



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9. Which taxonomical aid has collection of preserved plant and animals specimens for study and reference?

A. Herbarium

B. Key

C. Museum

D. Botanical garden

Answer: C



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10. Which organism are placed in museum after collecting, killing and pinning?

A. Plants

B. Mammals

C. Birds

D. Insects

Answer: D



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11. Larger animals like birds and mammals are usually stuffed and preserved in

A. Herbarium

B. zoo

C. Zoological parks

D. Museum

Answer: D



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12. Museum have the collection of

- A. Insect specimens
- B. Larger animal specimens
- C. Skeleton of animals
- D. All of the above

Answer: D



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13. Which taxonomical aid contain information on any one taxon?

A. Catalogues

B. Manuals

C. Floral characters

D. Monograph

Answer: D



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14. Which taxonomical aid help in correct identification?

- A. Monograph
- B. Manuals
- C. Floral characters
- D. All of the above

Answer: D



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15. Wild animals are kept in protected environment in

A. Garden

B. Museum

C. Biological parks

D. Zoological parks

Answer: D



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16. Each plant is labelled indicating its botanical/Scientific name and its family. The taxonomical aid used for this is

A. Museum

B. Herbarium

C. Botanical garden

D. All of the above

Answer: C



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17. Royal botanical garden is located at

A. New delhi

B. Kolkata

C. Kew, England

D. Lucknow

Answer: C



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18. Keys' were developed by

A. John Hutchinson

B. John Ray

C. Julian Huxley

D. Ernst Haeckel

Answer: B



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Section B Assertion Reasoning Questions

1. Assertion: Taxonomic studies of various species of plants and animals are useful in agriculture, forestry, industry and in general in knowing our bio-resources and their diversity.

Reason: Taxonomic studies would require correct classification and identification of organisms.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: B



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2. Assertion: The sum total of all the chemical reaction occurring in our body is metabolism.

Reason: All plants animals and fungi exhibit metabolism but microbes do not show metabolism.

A. If both Assertion and reason are true and the reason is the correct explanation o the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of

the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: C



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3. Assertion: A dead organism does not grow.

Reason: No non-living object is capable of reproducing or replicating by itself.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: B



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4. Assertion: Beside growth, cell division occurs in certain animal tissues to replace lost cells.

Reason: Growth can be taken as a defining property of living organisms.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: C



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5. Assertion: In unicellular organisms, we are not very clear about the usage of these two terms-growth and reproduction.

Reason: In unicellular organisms, reproduction is synonymous with growth.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of

the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: A



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6. Assertion: Both wheat and mango belong to the same division.

Reason: Mango and wheat have flowers and ovary.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: A



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7. Assertion: Gorilla and tiger belong to same class.

Reason: Primata and carnivora included in mammalia

A. If both Assertion and reason are true and the reason is the correct explanation o the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of

the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: A



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Section D Chapter End Test

1. Who pioneered the currently accepted definition of a biological species?

A. E. Mayr

B. J. Ray

C. Hutchinson

D. Bentham and Hooker

Answer: A



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2. Botanical name of bread wheat is

A. *Triticum durum*

B. *Triticum polonicum*

C. *Triticum macha*

D. *Triticum aestivum*

Answer: D



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3. Who was one of 100 greatest scientists of all time?

A. P. Maheshwari

B. R. Mishra

C. Esau

D. E. Mayr

Answer: D



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4. Twin characteristics of growth are

A. Increase in length

B. Increase in width

C. Increase in mass and number

D. Both A and B

Answer: C



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5. binomial nomenclature system of Linnaeus

means that every organism has

A. A scientific and a common name

B. name of genus and species

C. A name given by two scientists

D. One name is Latin, other common.

Answer: B



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6. The father of modern taxonomy is

A. Theophrastus

B. Aristotle

C. Carl Linnaeus

D. None of them

Answer: C



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7. Growth and reproduction are mutually exclusive events in

A. Lower plants

B. Lower animals

C. Higher animals and plants

D. Unicellular organisms

Answer: C



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8. A group of related genera, with still less number of similarities as compared to the genus and species constitutes

A. Order

B. Class

C. Family

D. Genus

Answer: C



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9. Non-living objects also grow if we take increase in body mass as a criterion for growth. In mountains, boulders and sand mounds growth is from

A. Outside

B. Inside

C. both

D. None of the above

Answer: A



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10. Reproduction is synonymous with growth
in

A. Amoeba

B. Bacteria

C. Unicellular algae

D. All of the above

Answer: D



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11. Which includes in the triple crown of biology?

i. Lasker award

ii. International prize for biology

iii. FRS, England

iv. Balza prize

v. Crafoord Prize

A. I,ii,v

B. ii,iii,iv

C. ii,iv,v

D. I,iv,v

Answer: C



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12. Two individuals belongs to the same species if they

A. Are reproductively isolated among themselves

B. are morphologically similar

C. are interbreeding and produce infertile offspring

D. are interbreeding and produce fertile offspring.

Answer: D



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13. Father of Biology is

A. Linnaeus

B. Theophrastus

C. Aristotle

D. Lamarck and Darwin

Answer: C



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14. Earliest classification were based on the

A. Food

B. Clothing

C. Shelter

D. uses of various organisms/all of the
above

Answer: D



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15. The word systematics is derived from the systema which is a

- A. Latin Word
- B. Greek word
- C. English word
- D. Italic letter

Answer: A



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16. Common feature of insects is

- A. Jointed appendages and antennal
- B. Two pairs of wings
- C. Three pairs of jointed legs
- D. Biting and chewing type of mouth part

Answer: C



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17. The term 'systematics' refers to

A. Diversity of kinds of organisms and relationships among them

B. identification and classification of organisms.

C. identification and Nomenclature of organisms

D. Nomenclature and classification of organisms.

Answer: A



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18. In relation to the biological or scientific names which is wrong?

A. Scientific names are generally in latin and printed in italics

B. Scientific names ensure that one organism has only one name

C. Scientific names are used all over the world

D. One Scientific name can be used for two related species.

Answer: D



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19. Wheat belongs to the family

A. Anacardiaceae

B. Phaeophyceae

C. Poaceae

D. Chlorophyceae

Answer: C



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20. Class is the taxonomic category which includes related

A. Families

B. Orders

C. Genus

D. Species

Answer: B



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21. A species is reproductively isolated from another species. The concept of reproductive isolation was given by

A. Linnaeus

B. Aristotle

C. E. Mayr

D. De Candolle

Answer: C



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22. Species living in same or overlapping geographical areas are called.

A. Sympatric species

B. Allopatric species

C. Sibling species

D. Polytypic species.

Answer: A



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23. Species living in different geographical areas are

A. sympatric species

B. Allopatric species

C. Sibling species

D. Polytypic species.

Answer: B



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24. As we go from kingdom to species number of common characteristics goes on

A. Increasing

B. decreasing

C. Increasing at some level

D. Decreasing at some level

Answer: A



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25. In hierarchical arrangement, the category which have greatest diversity

A. Kingdom

B. Phylum

C. Order

D. Species

Answer: A



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26. The division and class of wheat are

A. Dicotyledanae ad angiospermae
respectively

B. Monocotyledonae and angiospermae
respectively

C. Angiospermae and dicotyledonae
respectively

D. Angiospermae and monocotyledonae
respectively.

Answer: D



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27. Scientific names of animals are based on principles and criteria agreed by

A. IUCN

B. ICZN

C. ICBN

D. ICVN

Answer: B



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28. All living organisms (plants and animals) have As the lowest category.

A. Species

B. Genus

C. Kingdom

D. None of the above

Answer: A



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29. Which genus includes cat?

A. Canidae

B. Felidae

C. Canis

D. Felis

Answer: D



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30. The genus of potato is

A. Melongena

B. tuberosum

C. tuberosum

D. solanum

Answer: D



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31. The scientific name of leopard

A. Pardus

B. Tigris

C. P. tigris

D. P. Pardus

Answer: D



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32. The family solanaceae includeds the genus
genera

A. solanum

B. petunia

C. datura

D. all of the above

Answer: A



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33. Felidae includes

A. Cats

B. Panthera Leo

C. Tiger

D. all of the above

Answer: D



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34. select the incorrect statements

(A) lower the taxon, more are the characteristics that the members within the taxon share

B Order is the assemblage of genera which

exhibit a few similar characters

C Cat and dog are included in the same family

felidae

D Binomial nomenclature was introduced by

Carolus Linnaeus

A. I, ii and iii

B. ii, iii and iv

C. I and IV only

D. ii and iii

Answer: D



35. Select the incorrect statement

- A. Cat and dog are included in same order.
- B. cat and tiger are included in same family.
- C. Gorilla and gibbon are placed in same class.
- D. Petunia and datura and placed in same genus.

Answer: D



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36. the term species was coined by

- A. Johanssen
- B. John Ray
- C. John Hutchinson
- D. Ernst Haeckel

Answer: B



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37. Taxonomic key is one of the taxonomic tools in the identification and classification of plants and animals. It is used in the preparation of

A. Monographs

B. Flora

C. Both A and B

D. None of these

Answer: C



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38. Which of the following is the defining characteristic of life?

A. Growth

B. Reproduction

C. Response to external stimuli

D. All of the above

Answer: C



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39. All living organisms are linked to one another because

A. They show common genetic material but to varying degree

B. They have common genetic material of the same type

C. All have common cellular organisation

D. all of the above

Answer: A



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40. The taxonomic unit 'Phylum' in the classification of animals is equivalent to which hierarchial level in classification of plants ?

A. Order

B. Dividion

C. Class

D. Family

Answer: B



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41. Match the columns I and II, and choose the correct combination from the options given.

Column I	Column II
(a) Family	i. <i>tuberosum</i>
(b) Kingdom	ii. Polymoniales
(c) Order	iii. <i>Solanum</i>
(d) Species	iv. Plantae
(e) Genus	v. Solanaceae

A. i-d,ii-c,iii-e,iv-b,v-a

B. i-e,ii-d,iii-b,iv-a,v-c

C. i-d,ii-e,iii-b,iv-a,v-c

D. i-e,ii-c,iii-b,iv-a,v-d

Answer: A



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42. 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. - Ae

Answer: C



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43. One of the most important functions of botanical gardens is that

A. One can observe tropical plants there

B. They allow ex situ conservation

C. they provide the natural habitat for
wildlife

D. They provide a beautiful area for
recreation.

Answer: B



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44. Specific epithet is

A. First word in the scientific name of a species.

B. Second name in the scientific name of a species.

C. Both A and B

D. None of these

Answer: B



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45. Which of the following has correct specific epithet

A. *Indica mangifera*

B. *Leo panthera*

C. *Canis familiaris*

D. *Ascaris*

Answer: C



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46. In fish *Catla catla*, the specific name is identical with the generic name. It is an example of

A. Autonym

B. Tautonym

C. Synonym

D. Homonym

Answer: B



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47. The term "biosystematics" was coined by

A. Bentham and hooker

B. Linnaeus

C. Engler and prantl

D. Camp and gilly

Answer: D



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48. Holotype is

A. Specimens of a taxa deposited by different workers

B. Duplicate of the nomenclature type

C. Specimen used by scientist as nomenclature type

D. Specimens mentioned while describing a new taxa on which description is not based

Answer: C



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49. Botanical gardens and zoological parks have

A. collection of only local plants and animals

B. Collection of only exotic living species

C. Collection of only endemmic living species.

D. Collection of endemic and exotic living species.

Answer: D



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50. Pesticide used in preparation of herbarium is

A. NAA

B. Mercuric chloride

C. Carbon disulphide

D. 2,4-D

Answer: B



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Others

1. Largest herbarium of india is at

A. Royal batanical garden, Kew

B. Indian botanical garden, Lucknow

C. National botanical research Institute,
Lucknow

D. Indian botanical garden, Howrah

Answer: D



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2. Which is considered as basic unit of classification?

A. Phylum

B. Family

C. Species

D. Kingdom

Answer: C



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3. First act in taxonomy is

A. description

B. Identification and nomenclature

C. naming

D. Classification

Answer: B



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4. The total number of species that are known and described in ranges between.

A. 1.5-1.8 million

B. 1.6-1.7 million

C. 1.7-1.8 million

D. 1.8-1.9 million

Answer: C



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5. Which of the following statements regarding universal rules of nomenclature is wrong?

A. Both the words in a biological name, when handwritten are separately underlined.

B. The first word in a biological name represent the genus.

C. The first word denoting the genus starts with a capital letter.

D. Biological names are generally in greek and is written in italics.

Answer: D



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6. Which of the following combinations is correct for wheat?

A. Genus: *Triticum*, Family: Poaceae, Order: Poales Class: Dicotyledonae

B. Genus: Triticum, Family: Poaceae, Order:

Sapindales, Class: Monocotyledonae

C. Genus: Triticum, Family: Poaceae, Order:

Poales, Class: Monocotyledonae.

D. Genus: Triticum, Family: Anacardiaceae,

Order: Poales, Class: Monocotyledonae

Answer: C



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7. "Taxon" differs from "Taxa" due to

A. This being a higher taxonomic category

than taxa

B. This being a lower taxonomic category

than taxa

C. This being the singular of taxa

D. This being the plural of taxa

Answer: C



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8. Indian botanical garden is located at

A. Howrah, Kolkata

B. New delhi

C. Kew, England

D. Lucknow, U.P

Answer: A



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9. A group of individuals, which are able to breed among themselves and produce their own kind is known as

A. Genus

B. Species

C. Order

D. Family

Answer: B



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10. The word "phylum" in taxonomy was coined by

A. John Ray

B. C. Linnaeus

C. G.L. Cuvier

D. Aristotle

Answer: C



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11. Taxonomic hierarchy refers to

A. Stepwise arrangement of all categories
for classification of plants and animals

B. A group of senior taxonomists who
decide the nomenclature of plants and
animals

C. A list of botanists or zoologists who have
worked on taxonomy of a species or
group

D. Classification of a species based on fossil record.

Answer: A



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12. Which is not correct hierarchical arrangement?

A. Class-Family-Genus

B. Phylum -order-Family

C. Class-order-family

D. Family-class-order

Answer: D



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13. The framework system of classification in which various taxonomic categories are arranged in order or logical sequence is called.

A. Classification

B. systematics

C. Taxon

D. hierarchy

Answer: D



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14. Grouping of organisms of any rank with similar traits is

A. Species

B. Taxonomical aid used for identification
of both plants and animals

C. Category

D. Family

Answer: B



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15. Species is a group of individuals that

- A. Are reproductively isolated among themselves
- B. Cannot interbreed
- C. Can interbreed
- D. Can interbreed with individual of other species.

Answer: C



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16. The term taxonomy was introduced by

A. Huxley

B. De Candolle

C. Bentham and Hooker

D. Linnaeus

Answer: B



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17. Who among the following is the father of botany?

A. Aristotle

B. Theophrastus

C. Robert Hooke

D. Carolus Linnaeus

Answer: B



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18. Which nomenclature was given by Linnaeus?

A. Multinomial

B. Binomial

C. ICZN

D. IUPAC

Answer: B



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19. Taxonomy related to morphology is

A. Alpha taxonomy

B. Beta taxonomy

C. Omega taxonomy

D. Adansonian taxonomy

Answer: A



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Column I	Column II
(Common name)	(Order)
(a) Wheat	(i) Primata
(b) Mango	(ii) Diptera
(c) Housefly	(iii) Sapindales
20. (d) Man	(iv) Poales

Match the columns I and II, and choose the correct combination from the options given.

A. a-1,b-2,c-4,d-3

B. a-4,b-3,c-2,d-1

C. a-2,b-4,c-1,d-3

D. a-3,b-4,c-2,d-1

Answer: B



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21. Family is placed between

- A. Order and genus
- B. Class and order
- C. Phylum and class
- D. Genus and species

Answer: A



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22. Which one of the following animals is correctly matched with its particular named taxonomic category?

- A. Humans-Primata, the family
- B. Housefly-Musca, an order
- C. Tiger-tigris, the species
- D. Cuttlefish-Mollusca, a class

Answer: C



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23. Which one of the following aspects is a exclusive characteristic of living things?

A. Isolated metabolic reactions occur in vitro

B. Increase in mass from inside only

C. Perception of events happening in the environment and their memory.

D. Increase in mass by accumulation of material both on surface as well as internally.

Answer: C



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24. True defining feature of living beings is

A. They digest their food

B. They can regenerate

C. They reproduce

D. They respond to external stimuli

Answer: D



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25. Which one of the following is a taxonomical aid for identification of plants and animals based on similarities and dissimilarities

A. Flora

B. Manuals

C. Monographs

D. Keys

Answer: D



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26. Animals are classified into hierarchical group, in which one of the following the largest number of species is found

A. Genus

B. Order

C. Phylum

D. Class

Answer: C



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27. Which one shows hierarchical arrangement of taxonomic categories of plants in descending order

A. kingdom → Phylum → class → order

→ family → genus → species

B. species → genus → division → order

→ family → genus → species

C. Kingdom → division → class → order

→ family → genus → species.

D. Species → Genus → family → order

→ class → division → kingdom

Answer: C



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28. In taxonomy, arrangement of different categories is known as

- A. Systematics
- B. Classification
- C. Hierarchy
- D. Taxon

Answer: C



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29. Assertion complexity of classification increases from kingdom to species.

Reason: Common characters decrease from kingdom to species.

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. if both assertion and reason are false.

Answer: B



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30. Taxonomical heirarchy was firstly given by Linnaeus. Which of the following categories are not used by Linnaeus?

A. Phylum, family and variety

B. Family, variety and order

C. Kingdom, phylum and family

D. Class, order and phylum

Answer: C



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- 31.**
- | | Column I | | Column II |
|-----|-----------------|----|------------------|
| (a) | Man | 1. | Poaceae |
| (b) | <i>Datura</i> | 2. | Anacardiaceae |
| (c) | Mango | 3. | Solanaceae |
| (d) | Wheat | 4. | Homonidae |

Match the columns I and II, and choose the

correct combination from the option given.

A. $a-4, b-3, c-2, d-1$

B. $a-4, b-3, c-1, d-2$

C. $a-1, b-2, c-3, d-4$

D. $a-1, b-3, c-2, d-4$

Answer: A



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32. which one of the following is a not a correct statement

A. A museum has collection of photographs of plants ad animals.

B. Key is a taxonomic aid for identification of specimens

C. Herbarium house dried, pressed ad preserved plants specimens.

D. Botanical gardens have collection of living plants for reference.

Answer: A



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33. Consider the following statements:

- (i) Genus comprises a group of related species
- (ii). Taxon represents a taxonomic group of any ranking
- (iii). Family comprises a group of related

genera

(iv). Taxonomic category 'class' includes related phyla Of the above statements:

A. I,ii and iv are correct

B. ii, and iv are correct

C. I,iii and iv are correct

D. I,ii,iii are correct

Answer: D



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34. Which term can be used for any taxonomic rank ?

A. Class

B. Order

C. Species

D. Taxon.

Answer: D



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35. Which taxonomic category of housefly is wrongly matched

A. Genus-Musca

B. Family-Muscidae

C. Order-Primata

D. Class-Insecta

Answer: C



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36. Which of the following is correctly matched with no exception in regard to plant classification

- A. Family-Poaceae-ae
- B. Division-Pteridophyta-phyta
- C. Class-Bryopsida-sida
- D. Genus-Solanum-um

Answer: A



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37. Herbarium sheets have information about

A. Date and place of collection, English, local and botanical names, family, collector's name.

B. Time and place of collection, english local and botanical names, phylum, collector's name

C. Date and time of collection, English, local and botanical names, class, collector's name

D. Date and place of collection, English, local and botanical names, order, collector's name

Answer: A



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38. The biologist who has been called the "Darwin of the 20th century", was

A. Lamarck

B. Linnaeus

C. E. Mayr

D. Whittaker

Answer: C



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39. ICBN stands for

A. Indian Council for Botanical Nature

B. International Code for Biological
Nomenclature

C. International Code for Botanical
Nomenclature.

D. Indian Code for Botanical Nomenclature.

Answer: C



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40. Binomial nomenclature means

- A. One name given by two taxonomists
- B. Two names: the Latinized, other of a person
- C. Two names: One scientific, other local
- D. Two word name: One indicate genus and other species.

Answer: D



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41. Select the correct statement

A. Biological names are generally in Greek and written in italics.

B. Family comprises a group of related species which has more characters in common.

C. *Triticum aestivum* comes under the order sapindales.

D. Families like convolvulaceae and solanaceae are included in the order polymoniales mainly based on the floral characters.

Answer: D



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42. Taxonomic categories showing correct hierarchical arrangement in ascending order is

A. kingdom → order → division → class

→ genus → species

B. species → genus → division → class

→ order → kingdom

C. Kingdom → division → class → order

→ family → genus → species.

D. Species → Genus → family → order

→ class → division → kingdom

Answer: D



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43. Which pair of plants are placed in family solanaceae?

A. Petunia and Sesbania

B. Pisum and Petunia

C. Datura and Asphodelus

D. Datura and Petunia

Answer: D



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44. National Botanical Research Institute

(NBRI) is located at:

A. Lucknow

B. England, (Kew)

C. Kolkata

D. Howrah

Answer: A



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45. Planaria possesses high capacity of

A. Bioluminescence

B. Metamorphosis

C. Regeneration

D. Alternation of generation

Answer: C



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46. Which one of the following is a taxonomical aid for identification of plants and animals based on similarities and dissimilarities

A. flora

B. manual

C. monograph

D. catalogue

Answer: B



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47. The name of a plant order ends with

- A. – eles
- B. – ales
- C. – aecae
- D. – aceae

Answer: B



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48. The largest herbarium of the world is located in

- A. Royal botanical garden, Kew london
- B. Museum of national history, paris
- C. New york botanical garden
- D. Madras herbarium, coimbatore

Answer: A



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49. Binomial nomenclature was introduced by

A. R.H. Whittaker

B. Carolus Linnaeus

C. Ernst Mayr

D. Aristotle

Answer: B



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50. Who was awarded with triple crown of biology?

A. Linnaeus

B. Darwin

C. Ernst Mayr

D. Aristotle

Answer: C



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51. For studying and understanding language of honeybees, the scientist who was awarded nobel prize, was

A. Rachael carson

B. D. Muller

C. Karl von frisch

D. T.A. loomis

Answer: C



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52. Nomenclature is governed by certain universal rules. Which one of the following is contrary to the rules of nomenclature

A. the names are written in latin and are italicised

B. When Written by hand, the names are to be underlined.

C. Biological names can be written in any language

D. The first word in a biological name represents the genus name, and the second is a specific epithet

Answer: C



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53. Who is known as Darwin of 20th century

A. R.H. Whittaker

B. D.J. Ivanowsky

C. Ernst Mayr

D. T.O. Diener

Answer: C



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54. The label of a herbarium sheet does not carry information on

A. Local names

B. Height of the plant

C. Date of collection

D. Name of collector

Answer: B



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55. study the four statements (A-D) given below and select the two correct ones out of them

(A) Definition of biological species was given by Ernst mayr

(B) photoperiod does not affect reproduction in plants

© Binomial nomenclature system was given by Ernst Whittaker

(D) In unicellular organisms, reproduction is synonymous with growth

The two correct statements are

A. a and d

B. a and b

C. b and c

D. c and d

Answer: A



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Column I

- a. Herbarium
- b. Key

Column II

- i. It is a place having a collection of preserved plants and animals.
- ii. A list that enumerates methodically all the species found in an area with brief description aiding identification.

56.

- c. Museum
 - d. Catalogue
- iii. Is a place where dried and pressed plant specimens mounted on sheets are kept.
 - iv. A booklet containing a list of characters and their alternates which are helpful in identification of various taxa.

Match the intems given in column I and with

those in column II and select the correct option given below.

A. a-I,b,-iv,,c-iii,d-ii

B. a-iii,b-ii,c-I,d-iv

C. a-ii,b-iv,c-iii,d-i

D. a-iii,b-iv,c-I,d-ii

Answer: D



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57. The usage of binomical names, for plant species was accepted by all after the publication of the work by

A. Hooker

B. Linnaeus

C. Bentham

D. Darwin

Answer: B



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58. *Nicotiana sylvestris* flowers only during long days and *N. tobacum* flower only during long days in the laboratory under different photoperiods, they can be induced to flower at the same time and can be cross fertilized 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. tobacum* 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: C



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59. Taxonomic hierarchy refers to

A. Step-wise arrangement of all categories

for classification of plants and animals

B. A group of senior taxonomists, who decide the nomenclature of plants and animals

C. A list of botanists or zoologists, who have worked on taxonomy of a species or group

D. Classification of a species based on fossil record.

Answer: A



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60. which of the following is less general in characters as compared to genus

A. species

B. Division

C. Class

D. Family

Answer: A



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61. Biological name of wheat is

A. *Triticum aestivum*

B. *Triticum Triticale*

C. *Triticum sativum*

D. *Oryza sativa*

Answer: A



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62. Match the I with column II and choose the correct option.

Column I

- (a) Family
- (b) Kingdom
- (c) Order
- (d) Species
- (e) Genus

Column II

- (i) Tuberosum
- (ii) Polymoniales
- (iii) Solanum
- (iv) Plantae
- (v) Solanaceae

A. a-iv,b-iii,c-v,d-iv,e-i

B. a-v,b-iv,c-ii,d-I,e-iii

C. a-iv,b-v,c-ii,d-I,e-iii

D. a-v,b-ii,c-ii,d-I,e-iv

Answer: B



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63. Assertion. Living system are closed systems.

Reason. Energy of living organisms cannot be lost or gained from environment

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If the assertion is true but reason is false.

D. If both the assertion and reason are false.

Answer: D



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64. Assertion: A morphology based approach to taxonomy is called alpha taxonomy and it is old fashioned.

Reason: A multidisciplinary approach to taxonomy called omega taxonomy is favoured in recent years. As, it excludes morphological features.

A. If both Assertion and reason are true and the reason is the correct explanation o the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If the assertion is true but reason is false.

D. If both the assertion and reason are false.

Answer: C



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65. Assertion: Consciousness is considered as defining property of living organism

Reason : All organisms from prokaryotes to most complex eukaryotes can sense and respond to environmental stimuli

A. If both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. if both assertion and reason are true but reason is not the correct explanation of

the assertion.

C. If the assertion is true but reason is false.

D. If both the assertion and reason are false.

Answer: A



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