

Living World

1. Which one of the following represents the correct sequence of taxonomic categories?

- (a) Division – Class – Family – Order – Genus – Species
- (b) Division – Class – Order – Family – Genus – Species
- (c) Class - division - Order – Family – Genus – Species
- (d) Division – Order – Class – Family – Genus – Species

Ans. (b)

Explanation: Hierarchical classification is the arrangement of organisms in a definite sequence of categories depending upon their relative dimensions. The hierarchy includes seven obligate categories: Kingdom- Division - Class - Order -Family - Genus – Species.

2. The complete name of a plant in binomial nomenclature has

- (a) One word
- (b) Two words
- (c) Three words
- (d) Five words

Ans. (b)

Explanation: According to this classification system the name of a plant or animal is composed of two latin words. The first word indicates the name of the genus and the second word denotes the name of the species.

3. Who was the founder of binomial nomenclature?

- (a) Lamarck
- (b) Darwin
- (c) Linnaeus
- (d) Mendel

Ans. (c)

Explanation: Linnaeus is the founder of binomial nomenclature. Binomial nomenclature is the system used to identify all organisms on Earth.

4. The taxonomic category 'order' is between
- (a) Genus and species
 - (b) Family and genus
 - (c) Class and family
 - (d) Phylum and class

Ans: (c)

Explanation: A class includes one or more orders. It is a taxonomic category between the class and family. Its suffix is ales. The subcategory of order is suborder.

5. Which one of the following reflects the evolutionary relationships of organisms?
- (a) Artificial classification
 - (b) Phylogenetic classification
 - (c) Biological classification
 - (d) Practical classification

Ans: (b)

Explanation: Phylogenetic classification reflects the evolutionary relationships of organisms.

6. The various grouping levels or ranks in classification are known as
- (a) Categories
 - (b) Taxon
 - (c) Family
 - (d) Hierarchy

Ans: (a)

Explanation: The various grouping levels or ranks in classification are known as categories. In the hierarchy of categories, kingdom is the highest and species is the lowest category.

7. A collection of pressed, dried and preserved plants is called
- (a) Flora
 - (b) Fauna
 - (c) Botanical garden
 - (d) Herbarium

Ans: (d)

Explanation: A herbarium is a collection of pressed, dried and preserved plants mounted on paper sheet, properly labeled, systematically arranged and available for reference or study.

8. Which is the following organism does not reproduce?
- (a) Monkey
 - (b) Mule
 - (c) Cat
 - (d) Giraffe

Ans. (b)

Explanation: A mule is the offspring of a male donkey and a female horse.

9. Which of the following are characteristics of living things?

- (a) They reproduce
- (b) They acquire energy
- (c) They respond to stimuli
- (d) All of the above

Ans. (d)

Explanation: Life is a unique, complex organization of molecules expressing itself through chemical reactions which lead to growth, development, responsiveness, adaptation and reproduction.

10. Anabolism is

- (a) Endergonic process
- (b) Exergonic process
- (c) Bidirectional process
- (d) Destructive process

Ans. (a)

Explanation: Anabolism, also known as biosynthesis, is the process by which organisms make complex molecules and substances from less complex components. It is endergonic process, in which product have more energy than the reactants. So, the reaction requires an input of energy.