

5. Why growth and reproduction cannot be taken as defining property of all living organisms ?

6. How is a taxon (pl.taxon) defined ?

Short Answer Question-II (3 marks each)

7. What is the difference between Botanical Garden and Herbarium ?

8. Keys are analytical in nature and are helpful in identification and classification of organisms. How ?

9. Define : (a) Genus (b) Family (c) Order

Long Answer Questions (5 marks each)

10. What are the universal rules of nomenclature ? What does .Linn.. Refer to in *Mangifera indica* Linn ?

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11. Illustrate taxonomical hierarchy with suitable examples from plant and animal species.

12. Define classification. What is the significance of classification ? What is the six kingdom classification ?

Answers

Very Short Answers (1 marks each)

1. Members that can interbreed to produce fertile offspring.

2. Systematic arrangement which also takes into account evolutionary relationships between organisms.

3. Kew (England) and National Botanical Research Institute (Lucknow), Indian Botanical Garden (Howrah).

Short Answers-I (2 marks each)

4. External and internal structure, structure of cell, development process and ecological information.

5. ● Non-living things can also increase in mass by accumulation of material on surface (accretion.)

● Many organisms do not reproduce (e.g., mules, sterile worker bees.)

6. Each category in a taxonomical hierarchy represents a rank and is called taxon.

Short Answers-II (3 marks each)

7. Botanical Garden : Collection of living plants.

Herbarium : Collection of dried, pressed and preserved plant specimens on sheets.

8. Key is a list of alternate characters arranged in such a manner that by acceptance and rejection one can easily identify an organism as to its name and position. Keys are generally analytical in nature.

9. (a) Genus : Group of related species;

(b) Family : Group of related genera;

(c) Order : Group of related families.

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Long Answers (5 marks each)

10. Refer page no. 7, NCERT, Text Book of Biology for Class XI.

.Linn.. indicates that the species was first described by Linnaeus.