

Class : XIth Date :

Solutions

Subject : BIOLOGY DPP No. : 9

# Topic :- The Living World

## 1 (a)

John Ray introduced the term 'Species' in its presence sense for the first time. He also published a book *Historia Generalis Plantarum* 

2 **(c)** 

Taxonomy is applicable for both plants and animals.

## 3 **(b)**

Reproduction by fragmentation can be best observed in protonema of mosses, filamentous algae and in the fungi

## 4 **(d)**

In biological taxonomy, a monograph is a comprehensive, treatment of a taxon which revises all known species within a group, add any newly discovered species and collects and synthesis available information on various aspects, eg, ecological association, geographic distributions and morphological variations within the group.

## 5 **(c)**

Taxa is plural of taxon. A taxon represents a grouping in a systematic classification of organism (whatever its rank)

6 **(c)** 

In hierarchical system of classification phylum and division occupy the same position which are used in classification of animal and plant, respectively

7 **(b)** 

Taxon is used to represent any rank in taxonomic hierarchy.

# 8 **(c)**

Phylogenetic system involves the classification of plants, according to the envolutionary and genetic affinities. This system of classification was proposed by **Engler** in 1886, by **Hutchinson** in 1926 and by **Tippo** in 1942.

# 9 **(c)**

John Ray (1627-1705) an english biologist described about 18,500 plants is three volumes of his book of *Historia Generalis Plantarum* 

## 10 **(d)**

Taxon is used to represent any rank in taxonomic hierarchy, *i.e.*, any level of grouping of organism based on observable feature like dog (species), monocot (class). According to

Simpson, taxon is a group of real organisms recognized at a formal unit at any level in hierarchy

#### 11 **(b)**

The genus *Felis* is used to represent cats

12 **(a)** 

Aristotle (384-322 BC) described structure, habit, reproduction and classification of animals in his book *Historia Animalium*. He is regarded as father of zoology and biology

13 **(a)** 

The correct labelling place on a herbarium sheet is lower corner of page of RHS and generally its size is  $7 \times 12$  cm

14 **(c)** 

The sum total of all the genes present in a crop and its related species constitutes its germplasm. It is ordinarily represented by a collection of various strains and species.

## 15 **(c)**

Bentham and Hooker did not know the affinities of the families placed under Ordines Anomali and these families were tentatively grouped together.

#### 16 **(d)**

Growth also occur in unicellular organisms by cell division. It can be observed in *vitro* culture by counting the number of cell under microscope

#### 17 **(c)**

Increase in mass and increase in number of individuals are considered the twin characteristic of growth in living organisms

18 **(a)** 

Number and type of organisms it includes

#### 19 **(b)**

Binomial system of nomenclature was proposed by Carolus Linnaeus. The system of nomenclature was firsts issued in Species Plantarum. Binomial system approve two name for an organism, i.e., generic and specific name

#### 20 **(c)**

Reproduction.

Regeneration was first observed in *Hydra. Planaria* exhibits true regeneration. All these organisms show regeneration as a key feature

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	Α	С	В	D	С	С	В	С	С	D
Q.	11	12	13	14	15	16	17	18	19	20
A.	B	Α	Α	С	С	D	С	Α	B	С