



Answer the following questions:

C1: THE LIVING WORLD

- Q.1 What do you mean by biodiversity?
- Q.2 What is taxonomy?
- Q.3 Who is father of taxonomy?
- Q.4 What is systematics?
- Q.5 What is taxon?
- Q.6 What is Herbarium?
- Q.7 Name two botanical gardens.
- Q.8 Who proposed Binomial nomenclature? What do you understand by it?
- Q.9 What are the universal rules of nomenclature?
- Q.10 What are taxonomical aids? Name them.
- Q.11 What are keys? What is their importance?
- Q.12 Differentiate between natural and artificial classification?
- Q.13 What is advantage of giving scientific name to organism?
- Q.14 Give hierarchical classification of House fly.

C2: BIOLOGICAL CLASSIFICATION

- Q.1 Who proposed 5 kingdom classification?
- Q.2 What is heterocyst?
- Q.3 What is mycoplasma?
- Q.4 What are saprophytes?
- Q.5 What is alternations of generation?
- Q.6 What are Halophiles?
- Q.7 Name the components of lichen.
- Q.8 What are organisms which synthesise their own food using chemical energy known as?
- Q.9 What are the different forms of protists? Write one feature of each.
- Q.10 To which group do bacteria belong? How have they been classified according to their shape?

- Q.11 Briefly write about reproduction in kingdom fungi?
- Q.12 Write four features of phycomycetes.
- Q.13 Give short note on Virus.
- Q.15 Differentiate between Ascomycetes and Basidiomycetes in all respects.
- Q.16 Give the features which forms the basis of Five Kingdom Classification
- Q.17 Write about the following:
- Cyanobacteria
 - Euglenoids
- Q.18 What is the name of fully formed virus particle?
- Q.19 What is the chemical nature of capsid?
- Q.20 Which technical term is given to the process of sexual reproduction in paramecium?

Prepare an investigatory project on the topic “Plant Tissue culture”, emphasising the following points:

- Meaning of Plant Tissue Culture
- Basic Requirements of Plant Tissue Culture
- Important Steps
- Applications of Plant Tissue Culture in Crop Improvement
- Techniques of Tissue Culture preferred in Plant System

Or

Identify at least 15 trees based on observation of leaf, fruit, and silhouette, collect specimens and construct a herbarium on a standard herbarium sheet following the criteria for its preparation and preservation, research the natural history of your collected specimens and construct a dichotomous key to identify specimens in your collection.

The project report should be handwritten on A4 Size pages and should contain 20-25 pages.

The report should be presented in the following order: a) Cover page including Title of project, student information, name of the school and academic session b) Acknowledgements c) Chapters with relevant headings d) Summary and conclusion e) Bibliography.

All photographs and sketches should be labelled and acknowledged.

Credits will be awarded to original drawings and illustrations.