

**HOLIDAY HOMEWORK**

**CLASS XI**

**BIOLOGY**

1. Who introduced Binomial nomenclature?
2. Write the following scientific name correctly – man, leopard, housefly, potato, tiger, lion and wheat.
3. How are taxonomic studies useful for human being?
4. Name two famous botanical garden of India.
5. Differentiate between- (a) herbarium and botanical garden  
(b) museum and zoological parks.
6. How is a key helpful in the identification and classification of an organism?
7. Write five characteristics of living organisms.
8. Illustrate the taxonomical hierarchy with suitable of a plant and an animal.
9. What is biological classification? How is it done?
10. Arrange the following in correct sequence- class, family, genus, kingdom, species, order, and phylum/division.
11. Why was two kingdom classification found inadequate to classify living organisms? Give three reasons.
12. a) Name three groups of organisms which are acellular.  
b) Why did Whittaker not put viruses in five kingdom classification?
13. Distinguish between:
  - (a) Plant virus and animal virus
  - (b) Virus and viroids
  - (c) Mycobionts and phycobionts
  - (d) Ascospores and basidiospores
  - (e) Plasmogamy and karyogamy
14. Give one word answer:
  - (a) Pollution indicator organism
  - (b) Bacteria that live in marshy areas
  - (c) Bacteria that live in salty areas
  - (d) Who proposed two kingdom classification
  - (e) Who proposed five kingdom classification
  - (f) Smallest cell
  - (g) Specialized cell of Cyanobacteria that fix atmospheric nitrogen

- h) Chief producer of ocean which are mainly phytoplankton
  - i) Common name of ascomycetes and basidiomycetes
15. Identify the type of bacteria in the given figures below:

