



CAMBRIAN PUBLIC SCHOOL, Kanke Road, Ranchi

Summer Vacation Assignment – Class 11 Subject- Biology

1. In the five kingdom system of Whittaker, how many kingdoms are of eukaryotes?
2. Define the term 'species' or 'taxon'.
3. Name the reptile that has four chambered heart.
4. What is metabolism ?
5. Expand ICZN .
6. Write genus of blue whale.
7. What is the basis of classification of algae?
8. What is the form of reserve food in green algae?
9. Name the smallest known prokaryote.
10. Why are Bryophytes called 'Amphibians of Plant Kingdom' ?
11. Museums and Zoological parks are both taxonomical aids; yet, how do they differ from each other?
12. How are viroids different from viruses?
13. What is Diatomaceous earth? Mention any two economic uses.
14. Define cytotoxicity and chemotaxonomy.
15. Rearrange the following taxonomic categories in a proper sequence from smaller taxon to higher one :
Class, genus, phylum, order, species, kingdom, family.
16. Why are viruses called obligate intra-cellular parasites? Name a virus that has single stranded RNA as genetic material.
17. Draw a well labelled diagram of Euglena or Paramecium.
18. What do the term phycobiont and mycobiont signify?
19. Describe binomial nomenclature with an example.
20. Write a short account on herbarium as a taxonomic aid.
21. Describe the three groups of Archaeobacteria.
22. Draw a well labelled diagram of a bacteriophage.
23. Name the common name of following insects
(a) *Bombyx* (b) *Laccifer* (c) *Apis*
24. Write Genus of following birds
(a) Penguin (b) Ostrich (c) Parrot Fill in the blanks
25. Differentiate between Chlorophyceae and Phaeophyceae. Give two examples of each.
26. Describe briefly the four major groups of protozoa. Write one example of each.
27. Describe the important characteristics of algae. Give some economic importance of algae.
28. Illustrate the taxonomical hierarchy with suitable examples of a plant and an animal.