

Dr. M.K.K. ARYA MODEL SCHOOL

HOLIDAYS HOMEWORK ASSIGNMENT (2017-18)

SUBJECT : BIOLOGY

CLASS : XI

CHAPTER : 1 - 4

1. Define nomenclature. What is binomial nomenclature? Who devised it?
2. Distinguish between taxon and species.
3. Explain the taxonomical hierarchy with suitable examples of a plant and an animal.
4. What are taxonomical aids? Explain the role of herbarium and key.
5. Mention the advantages of scientific names.
6. How does manual differ from flora?
7. State the economic important uses of heterotrophic bacteria and archaebacteria.
8. How do dinoflagellates differ from euglenoids.
9. Explain the major groups of protozoans.
10. Distinguish between ascomycetes and basidiomycetes.
11. Distinguish between monera and Protista.
12. Why are deuteromycetes commonly called imperfect fungi?
13. Why viruses are called obligate parasites?
14. What are prions?
15. Why lichens are good pollution indicators?
16. What are bacteriophages? Draw a well labeled diagram of bacteriophage.
17. Why diatoms are called pearls of ocean?
18. Distinguish between chlorophyceae and rhodophyceae.
19. Why is the endosperm of angiosperms triploid? Explain.
20. Which moss is used as packing material for trans-shipment of living material and why?
21. Distinguish between liverworts and mosses.
22. Explain the economic importance of gymnosperms, brown algae and bryophytes.
23. Explain the life cycle of angiosperms with the help of diagram only.
24. What kind of life cycle pattern is shown by gymnosperms? Explain with diagram.
25. Distinguish between:
 - a) Direct and indirect development.
 - b) Symmetrical and asymmetrical animals.
 - c) Cold blooded and warm blooded animals.
 - d) Open and closed circulatory system.
 - e) Ovipary and vivipary
 - f) Diploblastic and triploblastic animals.

- g) Chondrichthyes and osteichthyes.
 - h) Polyp and medusa.
 - i) Urochordata and cephalochordate.
 - j) Chordates and non chordates.
 - k) Aves and reptiles.
 - l) Coelenterata and ctenophore.
 - m) Platyhelminthes and aschelminthes.
26. Mention the role of radula in mollusca and parapodia in nereis.
27. What is bioluminescence? Which animal shows this property?
28. All vertebrates are chordates but all chordates are not vertebrates.
29. Give one example of each:
- a) Bath sponge
 - b) Sea anemone
 - c) Liver fluke
 - d) Portuguese man of war
 - e) Filarial worm
 - f) King crab
 - g) Blood sucking leech
 - h) Devil fish
 - i) Sea urchin
 - j) Lancelet
 - k) Lamprey
 - l) Limbless amphibian
30. Represent diagrammatically the coelomate, pseudo-coelomate and acoelomate conditions among animals.