



RAMAGYA SCHOOL, NOIDA
WORKHEET, 2017-2018
SUBJECT: BIOLOGY

CLASS: XI

MONTH: APRIL-MAY

CONCEPT BASED

1. Define phylogenetic classification systems, numerical taxonomy, cytotaxonomy and chemotaxonomy.
2. Give general characteristics of Kingdom Algae & discuss its mode of reproduction also.
3. Name two hydrocolloids obtained from algae.
4. Name two algae from which agar is obtained. give commercial use of agar.
5. Name two unicellular algae rich in proteins & which are used as protein supplements by space travelers.
6. List the name divisions of kingdom Algae & give their characteristics.
7. Explain life cycle of Bryophytes (Mosses).
8. Why are bryophytes called amphibians of Plant Kingdom?
9. What is 'gemma'? Where do you find them?
10. Give schematic representation of life cycle of pteridophyte.

REMEMBERING AND UNDERSTANDING

11. Schematically represent life cycle of a gymnosperm.
12. What are 2 classes of Angiosperm?
13. Describe male & female sex organs of an angiosperm.
14. What is double fertilization?
15. Give schematic representation of life cycle of an angiosperm.
16. What is open and closed type of circulatory system?
17. Which type of symmetry do the following animals have, explain the symmetry also:- sponges, echinoderms, annelids.
18. Give single terms for:-
 - (a) Animals which have ectoderm & endoderm only.
 - (b) Animals which ectoderm, mesoderm and endoderm.
19. Define coelom. Give e.g. of animals who are coelomates.
20. What are pseudocoelomates & acoelomates animals? Give egs also.
21. What is metamerisation ?

22. Give flowchart of classification of animals.
23. Explain the terms of Phylum Porifera: - Water canal system, coenocytes & types of skeleton sponges have.
24. (a) In which phylum do you find endoblasts? What is its function?
(b) Give differences between polyp & medusa.
25. What is bioluminescence?
26. What is the function of flame cells? In which phylum are they found?
27. When and where does reduction division takes place in life cycle of liverwort, moss, gymnosperm and angiosperm.
28. What do you mean by thallophyta? Name the two sub divisions.

APPLICATION BASED

29. Gametophyte is a dominant phase in the life cycle of bryophyte. Explain
30. Lichen is usually cited as an example of symbiosis in plants where algal and fungal species live together in a mutual benefit. Which of the following will happen if fungal and algal species are separated from each other:
 - a. Both will survive and grow normally independent from each other
 - b. Both will die
 - c. Algal component will survive whereas the fungal component will die
 - d. Fungal component will survive whereas the algal component will die.
31. Draw a labelled diagrams of the following:
 - a. Female and male thallus of liverwort.
 - b. Gametophyte and sporophyte of Funaria
 - c. Alternation of generation in angiosperm.
32. Explain why sexual reproduction in angiosperm takes place through double fertilisation and triple fusion. Also draw a labelled diagram to show the phenomena in female embryo sac.
33. Explain how the male and female gametophyte in pteridophyte is different from that in gymnosperm.
34. Comment on the life cycle and nature of fern prothallus.
35. Both gymnosperms & angiosperm bear seeds but then why are they classified separately?
36. List any three characteristic features of Bryophytes.
37. What are the identifying features of Angiosperms flowering plants.
38. Describe the similarities in sexual reproduction of moss & fern.
39. Describe the common mode of reproduction in Angiosperms.
