

## HOLIDAY ASSIGNMENT

### Assignment- I

1. Write the common name of Phaeophyceae. 1
2. What is Protonema? 1
3. Define Gemmae. 1
4. In which phylum Choanocytes can be seen? 1
5. What do you mean by metameric segmentation? 1
6. Write two characteristics of Platyhelminthes. 2
7. Write the function of nephridia. Where is it found? 2
8. Differentiate between diploblastic and triploblastic animals along with an example of each. 2
9. What do you mean by glycosidic bond and peptide bond? 2
10. Define sporophylls and prothallus. 2
11. Mention the types of enzymes (any six classes). 3
12. What do you mean by Competitive inhibition? Explain briefly with an example. 3
13. What do you mean by Double Fertilization? Briefly describe the process along with a suitable diagram. 3
14. What is Comb plates and Bioluminescence? Name the phylum showing these two characteristics. 3
15. Why Aschelminthes are also known as Roundworms? Distinguish the male and female *Ascaris* along with diagrams. 3
16. Name any three groups of plants that bear archegonia. Briefly describe the life cycle of any of them. 5
17. Explain three different types of Life cycles with suitable diagram. 5

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### Assignment- II

1. What is mycorrhiza? 1
2. Give two examples of Pteridophytes. 1
3. Write an example of Acoelomates. 1
4. What is Metamerism? 1
5. Define Coelom. 1
6. Write two characteristics of Cnidaria. 2
7. Differentiate between open and closed type of circulatory system. 2
8. What do you mean by co-factors? Give any two examples. 2
9. Why the red algae are “red” in colour? 2
10. What do you mean by Haplo-diplontic life cycle? Give examples. 2
11. Briefly describe the steps of catalytic cycle of an enzyme action. 3
12. Briefly describe the factors affecting enzyme activity. 3
13. What do you mean by Homosporous and Heterosporous? Give an example of each. 3
14. Define the following terms: Holdfast, stipe and frond. 3
  
15. Briefly describe the structure of embryo sac in angiosperm along with a suitable diagram. 3
16. Classify the kingdom- Animalia based on Levels of Organisation, Symmetry and Body cavity or Coelom. 5
- 17.a) What do you mean by Polyp and Medusa?  
b) Which is the largest phylum of Animalia? 5  
c) What do you mean by Dioecious animals? Give two examples.

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### Assignment- III

1. What do you mean by anabolic and catabolic pathway? 1
2. Mention the types of bond present in between two monosaccharides and two amino acids. 1
3. What is Mycorrhiza? 1
4. What is the seed habit of Pteridophyte? 1
5. Mention the phylum which shows polyp and medusa. 1
6. Mention the osmoregulatory organs of the following:  
i) Earthworm, ii) Mosquito, iii) Octopus, iv) Round worm. 2
7. With the help of a flow diagram classify the vertebrates. 2
8. Name the sporophytic structures of Pteridophyte and Gymnosperms. 2
9. What do you mean by Double Fertilization? 2
10. Differentiate Prosthetic group from Co-enzymes. 2
11. Explain the Competitive inhibition with a suitable example. 3
12. With the help of a graph show the level of activation energy in presence and absence of enzyme in a biochemical reaction. 3
13. Give the major pigments, storage food and cell wall composition of three different classes of algae. 3
14. Give a comparative account in between isogamous, anisogamous and oogamous types of sexual reproduction. 3
15. Differentiate Chordates from the Non-chordates (any three points) 3
16. Explain on any five basis the classification of animal kingdom. 5
17. Classify the enzyme into various classes with suitable example. 5