



ANANDALAYA
MID – TERM EXAMINATION
Class : XI

Subject: Biology
Date: 26/09/2019

M.M : 40
Time : 2 Hours

General Instructions:

1. All questions are compulsory. This question paper consists of 15 questions.
2. Question numbers 1 to 3 are very short questions and carry 1 mark each.
3. Question numbers 4 to 6 are short answer questions and carry 2 marks each.
4. Question numbers 7 to 13 are also short answer questions and carry 3 marks each.
5. Question numbers 14 and 15 are long answer questions and carry 5 marks each.

1. Define systematics. (1)
2. You were shown the reproductive structures of *Funaria* under the microscope. Name them (1)
3. Virus is not classified under any kingdom even though it is living in a host cell. What are the characters of virus that are similar to non living objects? (1)
4. A plant may have different names in different regions of the world. How did botanists solved this problem? (2)
5. Write two reasons for the dominance of angiosperms on earth. (2)
6. Ramjee found Mushroom growing on the lower branches of a Neem tree in his garden. Compare Mushroom and Neem tree to list any two important scientific differences. (2)
7. Samantha visited a botanical garden and saw a herbarium being displayed on the board. She became very curious and asked the following questions to her botanist friend. You, being her friend answer her queries. (3)
 - (a) What is Herbarium?
 - (b) What is the importance of Herbarium?
 - (c) Are botanical garden and herbarium related?
8. Name the plant groups that are referred as ‘Amphibians of Plant Kingdom’. Why are they called so? (3)
9. (a) In which plant group ‘Double Fertilisation’ take place? (3)
(b) Schematically represent the steps involved in ‘Double Fertilisation’.
10. Write three major differences between *Archaeobacteria* and *Cyanobacteria* (3)
11. Draw the bacterial cell and label the following parts in the cell. (3)
 - (a) Locomotory organelles
 - (b) Part that increases the surface area of its cell membrane
 - (c) Nuclear body
 - (d) Gelatinous layer that becomes thick
12. List any six differences between mitosis and meiosis. (3)
13. Why is there a need for two types of cell divisions in highly evolved multicellular organism? (3)
14. A patient suffering from dysentery for a week was advised by the doctor to get the stool tested to diagnose the protozoan infection. (5)
 - (a) Name any one protozoan that causes such symptom.
 - (b) Why did the doctor advice for the stool test?
 - (c) Write any six distinct characters of protozoans with examples.
15. Explain ‘Haplodiplontic Life Cycle’ with a suitable example. (5)