

TILOTTAMA SECONDARY SCHOOL

Assignment-2077

Class : 12
Subject: Biology

F.M. : 75
P.M : 27

Section 'A' (Botany)

1. **Answer any 7 very short questions.** [1×7 = 7]
 - a. What is sclerenchyma?
 - b. Define term diffusion.
 - c. What is phototropism?
 - d. What is heredity?
 - e. What is homozygous?
 - f. What is vegetative reproduction?
 - g. Define microsporogenesis.
 - h. What is self-pollination?
 - i. Define tissue culture.
 - j. What is antibiotic?
2. **Answer any 5 questions in brief.** [3×5 = 15]
 - a. Describe in detail about the types and functions of parenchymatous tissues.
 - b. Describe the uses of cytokinin.
 - c. Describe the structure of DNA.
 - d. Describe in detail about the incomplete dominance with example.
 - e. Describe the types of mutation.
 - f. Describe the process of double fertilization with necessary figures.
 - g. Discuss green manure and its application in agriculture.
3. Draw a well-labeled diagram of T.S. of dicot root and point out its differences with that monocot roots. [7.5]

OR

What is transpiration? Describe an experiment to show the unequal transpiration. [7.5]
4. Describe the sex-linked inheritance with the reference of *Drosophila* (fruit fly). [8]

Section 'B' (Zoology)

1. **Answer any 7 very short questions.** [1×7 = 7]
 - a. Write full form of NADP.
 - b. Name the two sex linked diseases in human.
 - c. What do you mean by myogenic heart?
 - d. What do you understand by Rh-factor?
 - e. In what form is oxygen transported to tissues?
 - f. Why is Hepatitis dangerous than AIDS.
 - g. Why blood group 'A' person cannot donate blood to blood group 'B' person.
 - h. Name the main steps of nutrition.
 - i. What is called brooding?
 - j. What is Toxoid? Give example.
2. **Answer any 5 questions in brief.** [3×5 = 15]
 - a. Describe the structure of areolar fissure.
 - b. Write notes on control measures of human population growth.
 - c. Discuss the fate of ectoderm.
 - d. Exchange of gases in the lungs.
 - e. Draw an L.S. of human eye.
 - f. What are heart sounds? How are they produced?
 - g. Explain the major causes of Cancer.
3. Give account of the process of urine formation in human being. [8]

OR

Explain the course of blood circulation in the human heart with the help of neat and well labeled diagram. [8]
4. Give an account of structure and function of a nephron in human being. [7.5]