


IX- STB Date:	<div style="text-align: center;"> <h1>MAHESH TUTORIALS</h1> <div style="border: 1px solid black; padding: 2px; display: inline-block;">SCHOOL SECTION </div> <p>Science Topic:</p> </div>	Class Test Marks : 40 Time : 2 Hr
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Q1-A. Fill in the Blanks: - (Any 5)

(5 marks)

- _____ Cells Control the opening and closing of Stomata.
- Waste materials present in the form of crystals of calcium oxalate are called _____.
- The functional unit of the kidney that performs the basic function of filtration is called a _____.
- Hereditary characters are transferred from parents to offspring by _____ hence they are said to be structural and functional units of heredity. ¹
- Chromosomes are mainly made up of _____.
- Harmful effects of smoking are due to the _____ present in tobacco.
- Blood is a type of _____ tissue.
- The epidermis of the stem and leaves is covered by a waxy layer of _____.
- Some cells in the body of living Organisms are ____ that is a new organism can be grown from them.

Q1. B. Answer whether following statements are true or false:- (Any 3)

(3 marks)

- Movement shown by plants in response to specific chemicals is called "Gravitropic movement"?
- Flower of Tuberose opens in the morning while the lotus opens at night.
- Wrinkled seed is the dominant character.
- In a Monohybrid ratio, the phenotypic ratio is 9:3:3:1.
- Glandular epithelium is present in kidneys.
- Chlorenchyma helps the plant to float in water.

Q1. C. Find the odd one out:

- Absence of hair on arms, Brown and straight hair, Attached ear lobes, Rolling tongue.
- Green pod, Tall plant, White flower, Axillary flower.
- Xylem, Phloem, Permanent tissue, Meristematic tissue.
- Cartilage, Bone, Tendon, Cardiac muscle.

Q.2. Answer the following questions:- (Any 5)

(10 marks)

- What is meant by coordination?
- Write short notes on Root pressure.
- Describe the transportation system in plants.
- Draw well-labelled and neat diagram of Nerve cell or neuron
- Express your opinion about the use of DNA fingerprinting.

6. What is meant by 'chromosome'? Explain its types.
7. Distinguish between monohybrid and dihybrid Cross.
8. Write a brief note on Monogenic disorders.
9. Distinguish between simple and complex tissues in plants.
10. 'Rearing of sheep is a livestock'. Justify this statement.
11. Write a short note on Striated muscles.
12. Write a short note on Sericulture.

Q.3. Answer the following questions:- (Any 5)

(15 marks)

1. Explain coordination in plants with the help of suitable examples.
2. Write short notes on Neuron.
3. Draw well-labelled and neat diagram of Human excretory system.
4. Describe the structure of the DNA molecule.
5. Explain Mendel's monohybrid progeny with the help of any one cross.
6. Write a brief note on Sickle cell anaemia: Symptoms and treatment.
7. Which two main techniques are used in biotechnology? Why?
8. Define the term tissue and explain the concept of tissue culture.
9. Write short note on Meristematic tissue.

Q.4: Answer the following questions:- (Any 1)

(5 marks)

1. Explain Chemical coordination in humans and give the names and functions of some hormones.
2. Explain Mendel's dihybrid ratio with the help of any one cross.
3. Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.

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