

CLASS X

BIOLOGY

ASSIGNMENT I Chapter – Genetics

Q1. Colour blindness is more common in men than in women. Give reason.

Q2. Why did Mendel select garden pea for his experiments?

Q3. What is a genome?

Q4. State the difference between autosomes and sex-chromosomes.

Q5. In a homozygous plant, round seeds (R) are dominant over wrinkled seeds (r).

(a) Draw a Punnett square to show the gametes and offsprings when both the plants have heterozygous round seeds. (Rr).

(b) Mention the Phenotype and Genotype ratios of the offsprings in F₂ generation.

(c) Name the sex chromosomes in human males and females.

(d) Briefly explain the term Mutation.

(e) What is the number of chromosomes in the gametes of human beings?

ASSIGNMENT II

Chapter –Absorption by Roots

- Q1.What is the need of water and minerals for plants.
- Q2.What are the characteristics of roots for absorbing water? Explain.
- Q3.What is imbibition ? How is it useful for plants?
- Q4.What is Osmosis ? What is the significance of Osmosis in plants?
- Q5.What is Isotonic , hypotonic and hypertonic solutions ?
- Q6. Differentiate between the following :
- 1.Diffusion and Osmosis.
 - 2.Endosmosis and Exosmosis.
 - 3.Flaccidity and Turgidity.
- Q7.What is Active Transport? What is its significance for plants ?
- Q8.What is Tonicity?
- Q9.Weeds can be killed by adding salt to it . Give reason.
- Q10 .What is Osmotic pressure.
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