

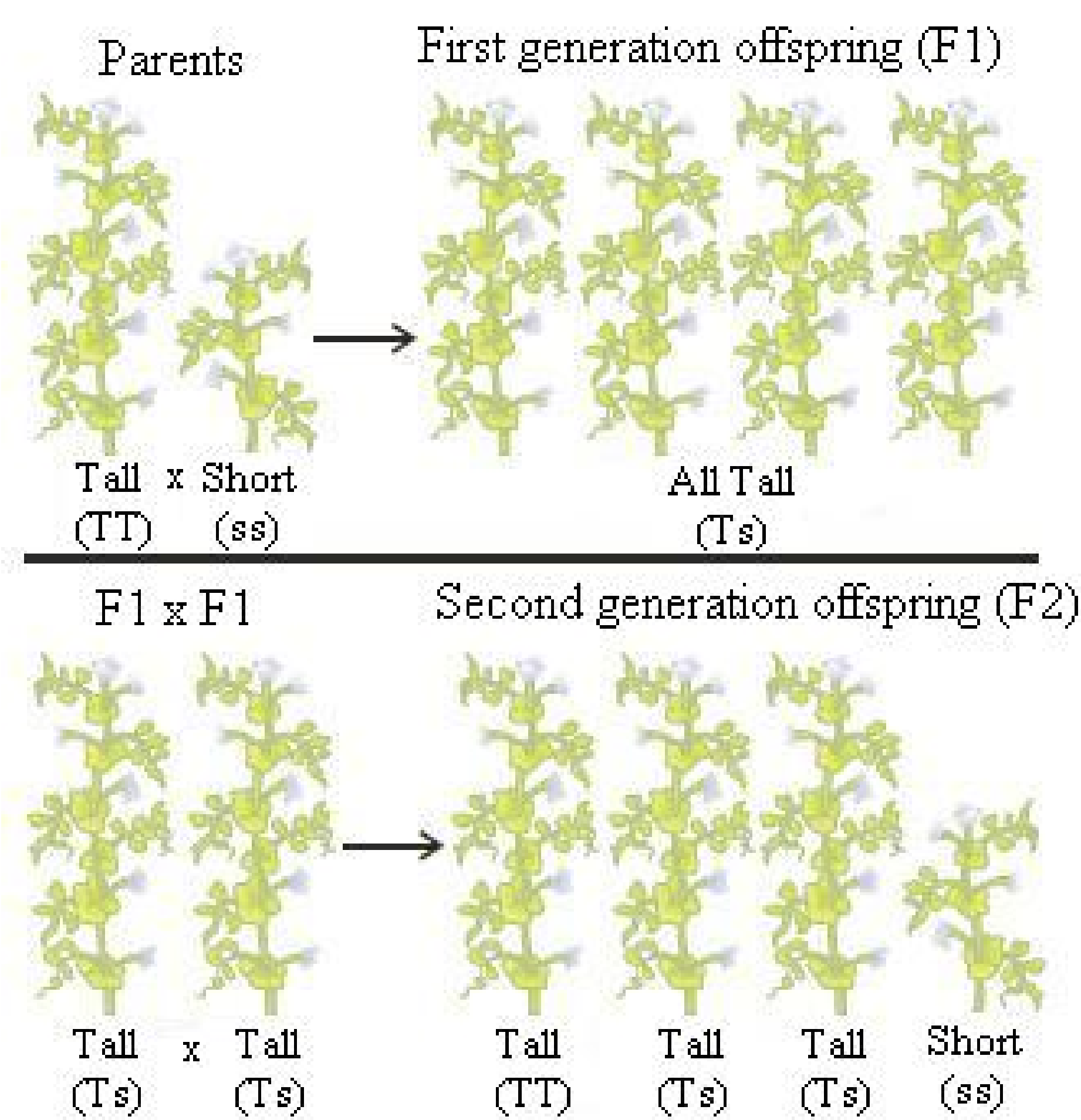
Case study based questions

10th Science

Heridity and Evolution

Passage - 1

5 Marks



Raju’s teacher was teaching the chapter "Heridity and Evolution" in class. While teaching, she showed the above chart to the students and asked them a few questions.

Q1. (2) Mendel

Q2. (1) Pea

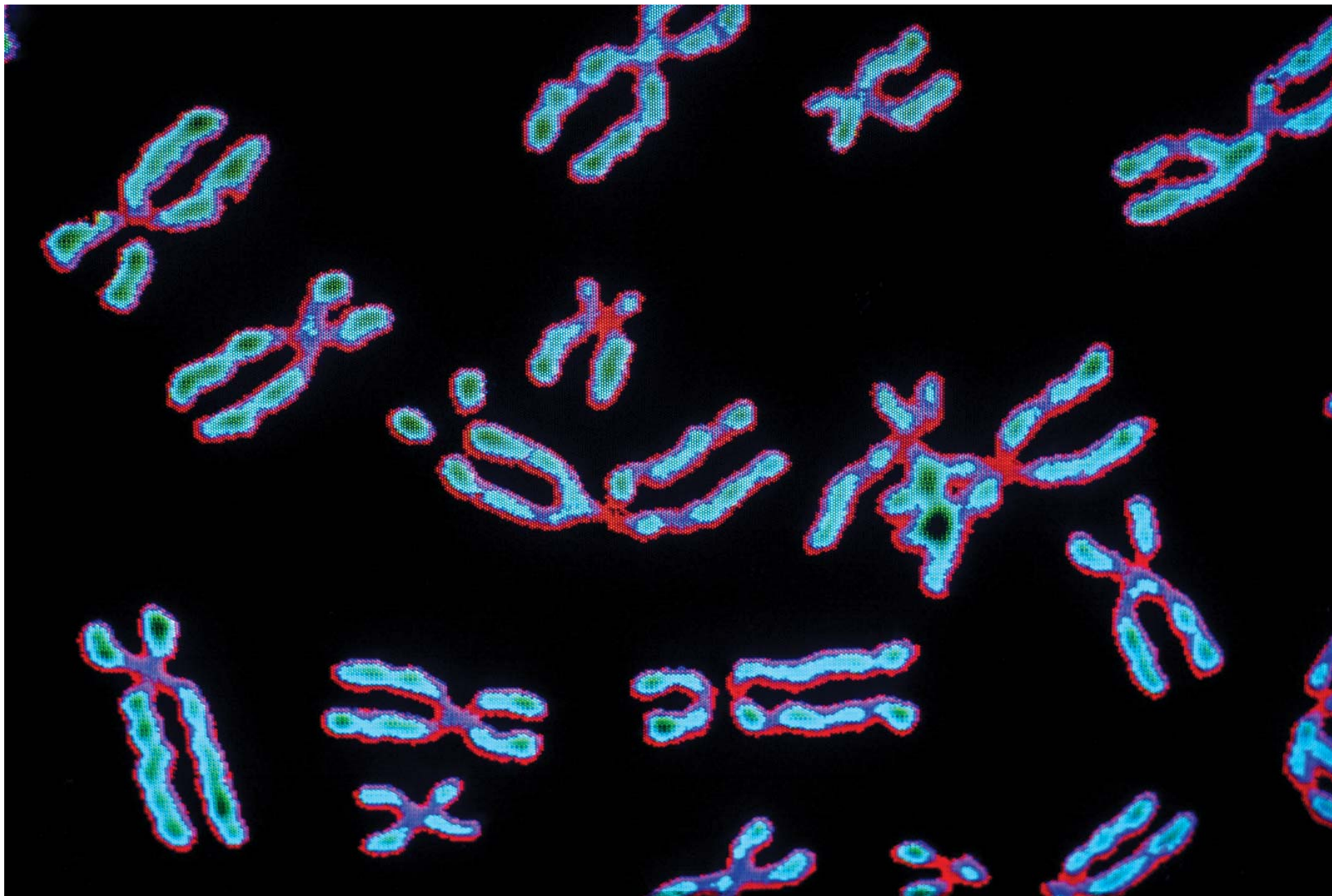
Q3. (1) TT

Q4. (3) 7

Q5. (2) tt

Passage - 2

5 Marks



On a visit to a biology lab, Paheli and her friends notice a chart having the above image. Everyone gave their opinion and they came to certain conclusions.

Q1. (1) Chromosomes

Q2. (2) Nucleus















Q3. (1) YES

Q4. (1) Centromere

Q5. (3) Chromatids

Passage - 3

5 Marks

Seed		Flower	Pod		Stem	
Form	Cotyledons	Color	Form	Color	Place	Size
						
Grey & Round	Yellow	White	Full	Yellow	Axial pods, Flowers along	Long (6-7ft)
						
White & Wrinkled	Green	Violet	Constricted	Green	Terminal pods, Flowers top	Short (1ft)
1	2	3	4	5	6	7

On a visit to a garden, a group of students were handed a leaflet containing the above picture. The owner of the garden organised a quiz and asked the students certain questions.

Q1. (2) Pea

Q2. (1) Round seed

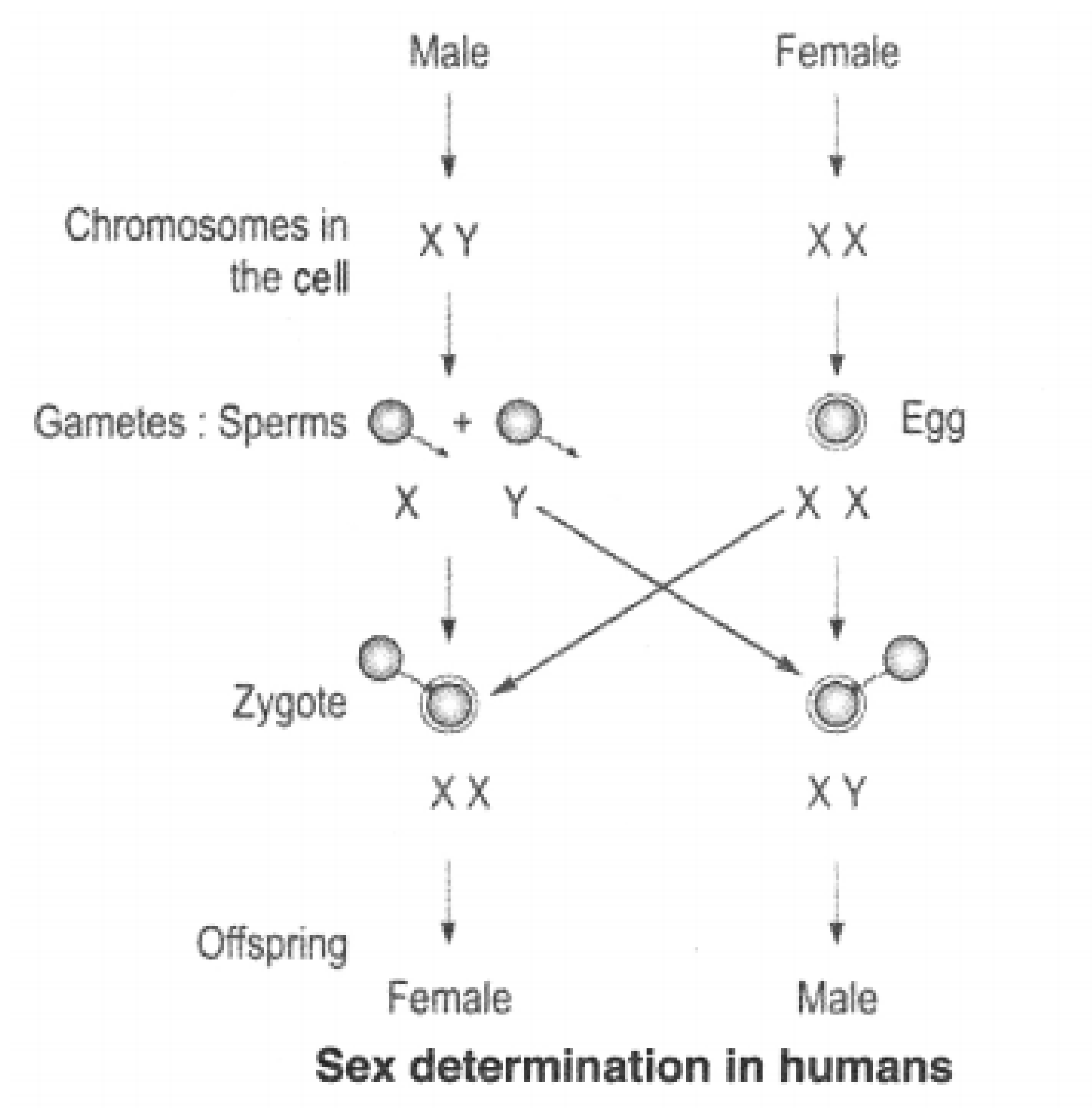
Q3. (2) Yellow cotyledons

Q4. (1) Full pod

Q5. (2) Axial pods

Passage - 4

5 Marks



A birth campaign was held in a village by an NGO where the above chart was displayed. The villages had certain questions in their mind.

Q1. (1) Genetically determined

Q2. (2) NO

Q3. (2) XY

Q4. (1) XX

Q5. (1) X

Passage - 5

5 Marks



Renu was going through a science magazine when she came across this picture. She got very excited and asked her mother about the picture.

Q1. (1) DNA

Q2. (2) Genes

Q3. (4) Gametes

Q4. (4) 4

Q5. (2) 2

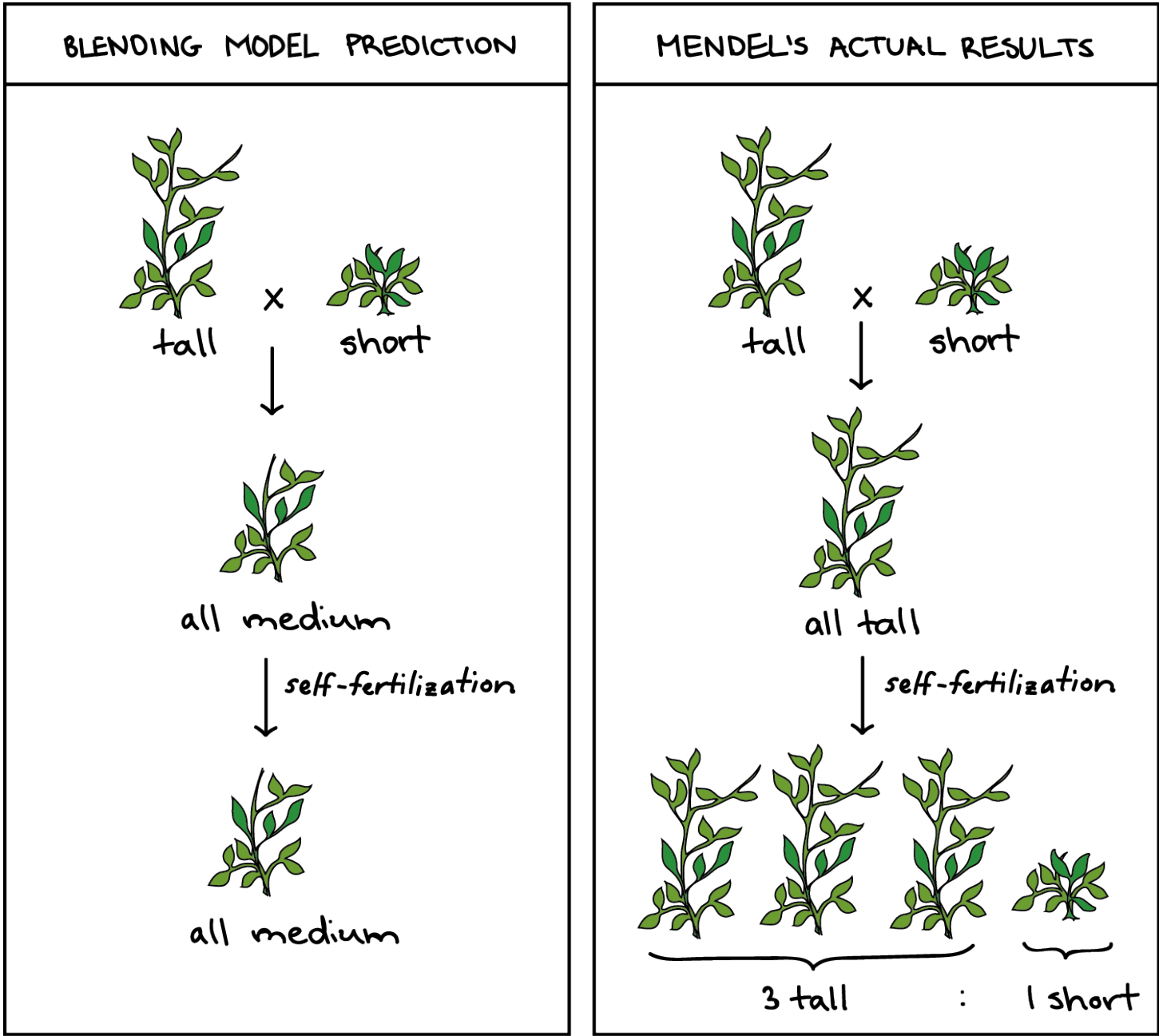
Case study based questions

10th Science

Heridity and Evolution

Passage - 1

5 Marks

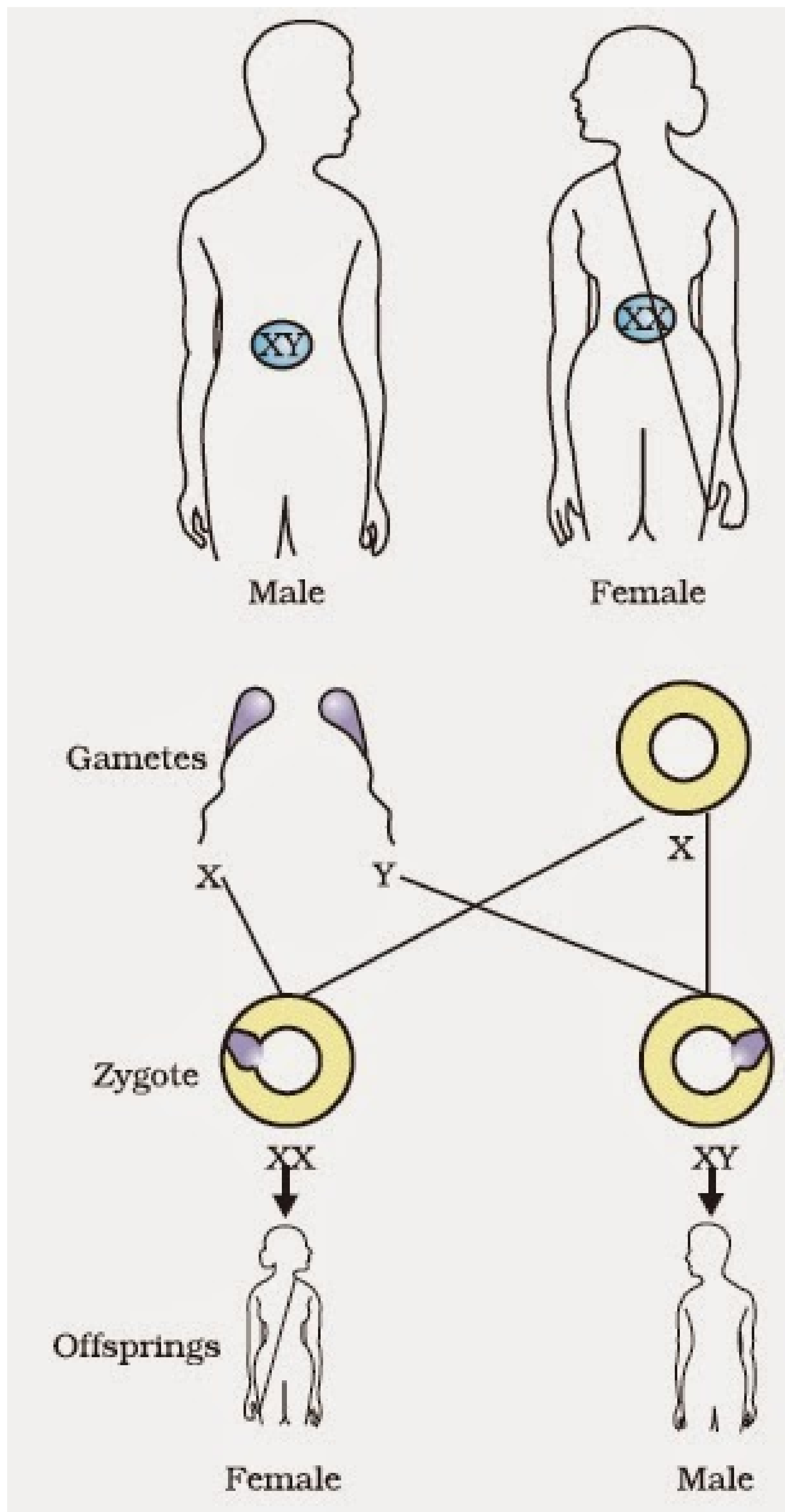


After being taught about heridity in a biology class, the students of St. Mary’s school were given an assignment, which consisted of the following five ques-tions based on the given figure.

- Q1. (1) Pea
- Q2. (2) Cross fertilisation
- Q3. (3) 3:1
- Q4. (1) 9:3:3:1
- Q5. (1) Round and Yellow seeds

Passage - 2

5 Marks



While studying about heridity in plants, Ava was curious to know about heridity in humans too. She asked her teacher about the same to which the teacher gave her the above picture to study .

Q1. (1) Gametes

Q2. (2) Sperm

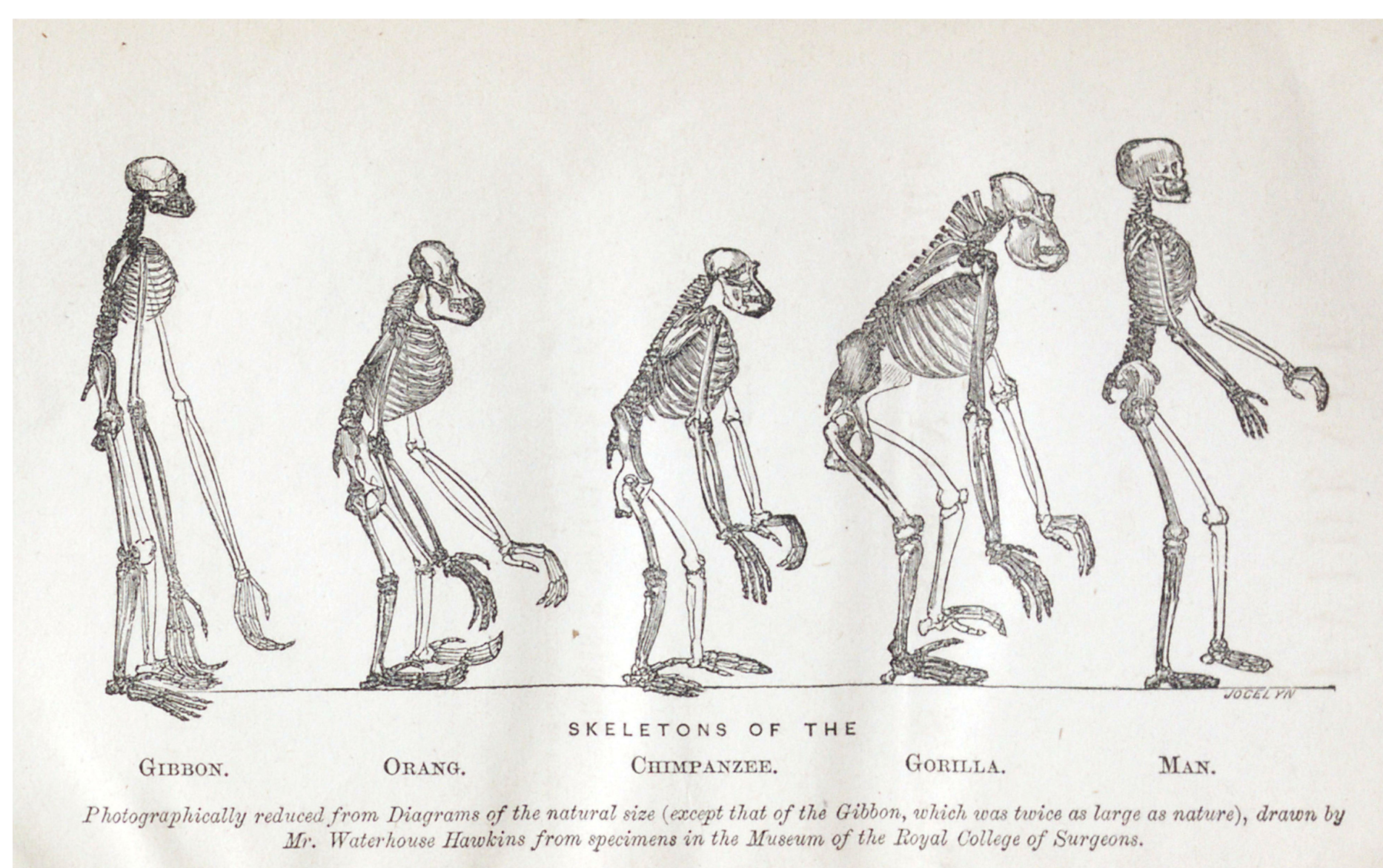
Q3. (1) Ovum

Q4. (3) Zygote

Q5. (2) Meiosis

Passage - 3

5 Marks



Riya went to a museum with her family and saw a huge painting of the above picture. She had few questions in her mind. The next day she went to her school and asked her teacher about her queries.

Q1. (1) Evolution

Q2. (2) Darwin

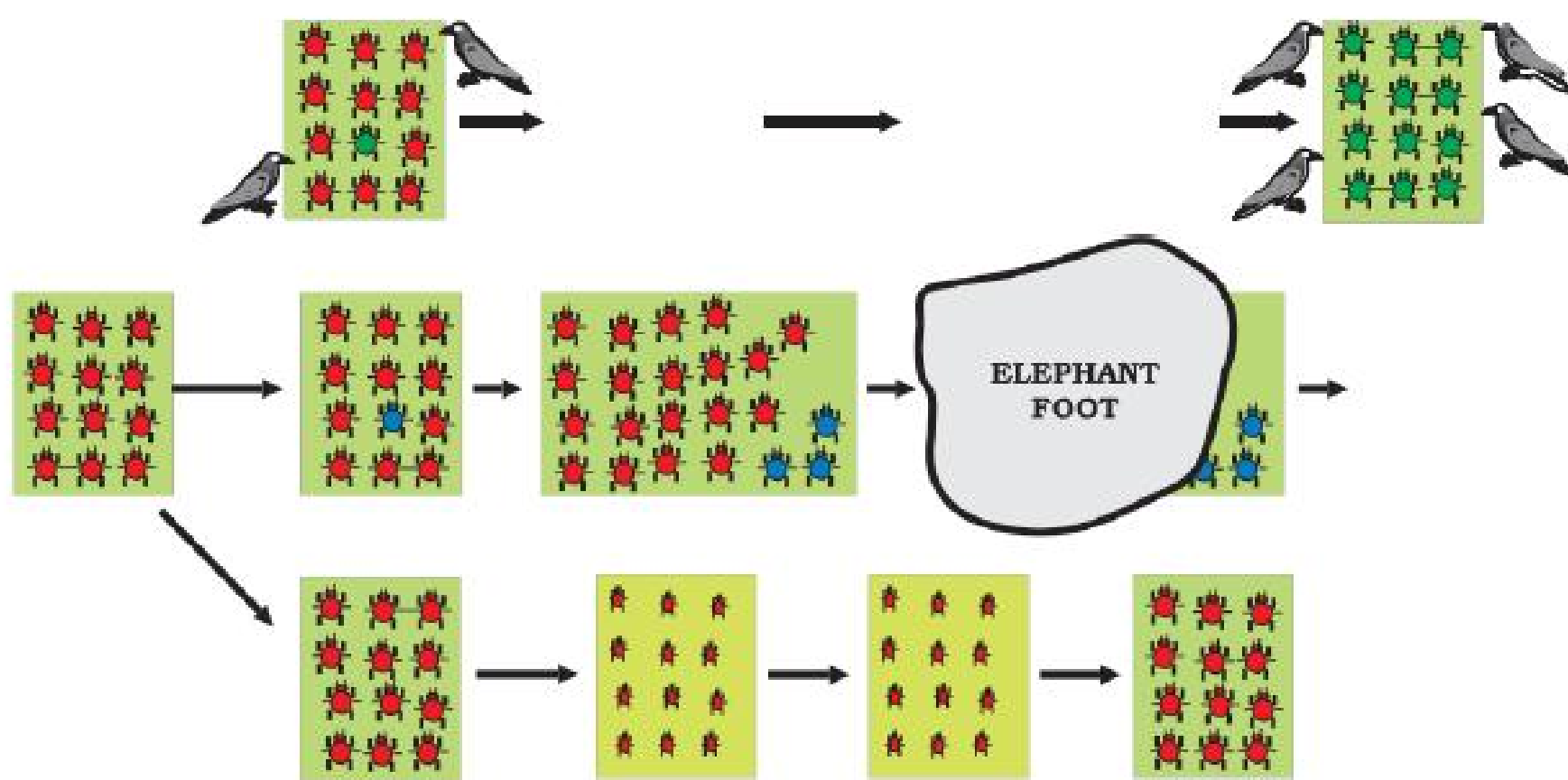
Q3. (1) Man

Q4. (1) Homo sapiens

Q5. (1) YES

Passage - 4

5 Marks



Rahul did a case study on a group of red beetles. To confirm that Rahul has done the whole work by himself, his teacher asked him a few questions.

Q1. (2) By sexual reproduction

Q2. (1) TRUE

Q3. (1) Variation

Q4. (1) Survival advantage

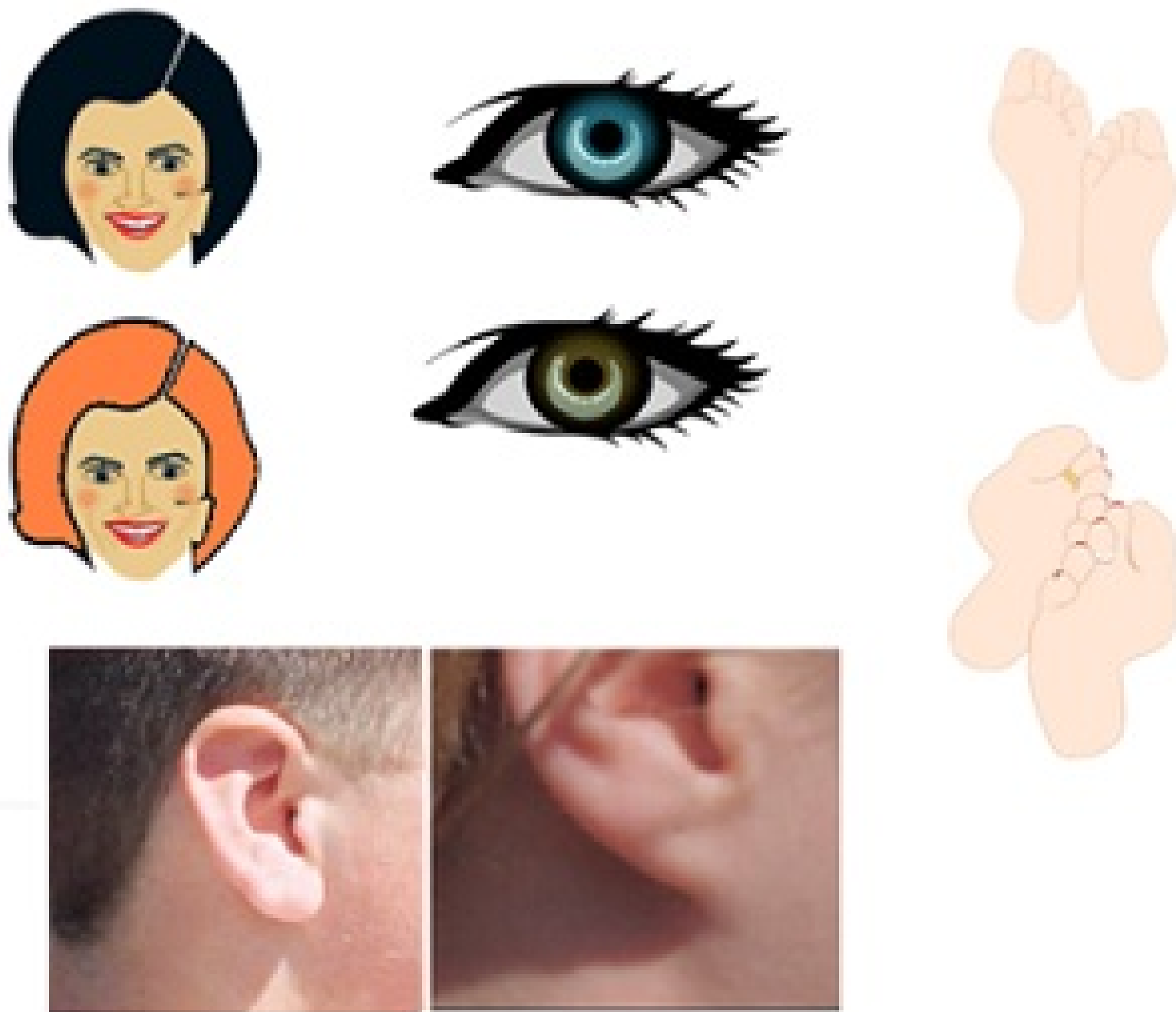
Q5. (1) YES

Passage - 5

5 Marks

Answer Key 9.2

Marks - 25



Suraj was given a chart containing the above images and was asked certain questions based on it.

Q1. (2) Inherited trait

Q2. (1) Acquired trait

Q3. (1) Acquired trait

Q4. (2) Inherited trait

Q5. (2) Inherited trait