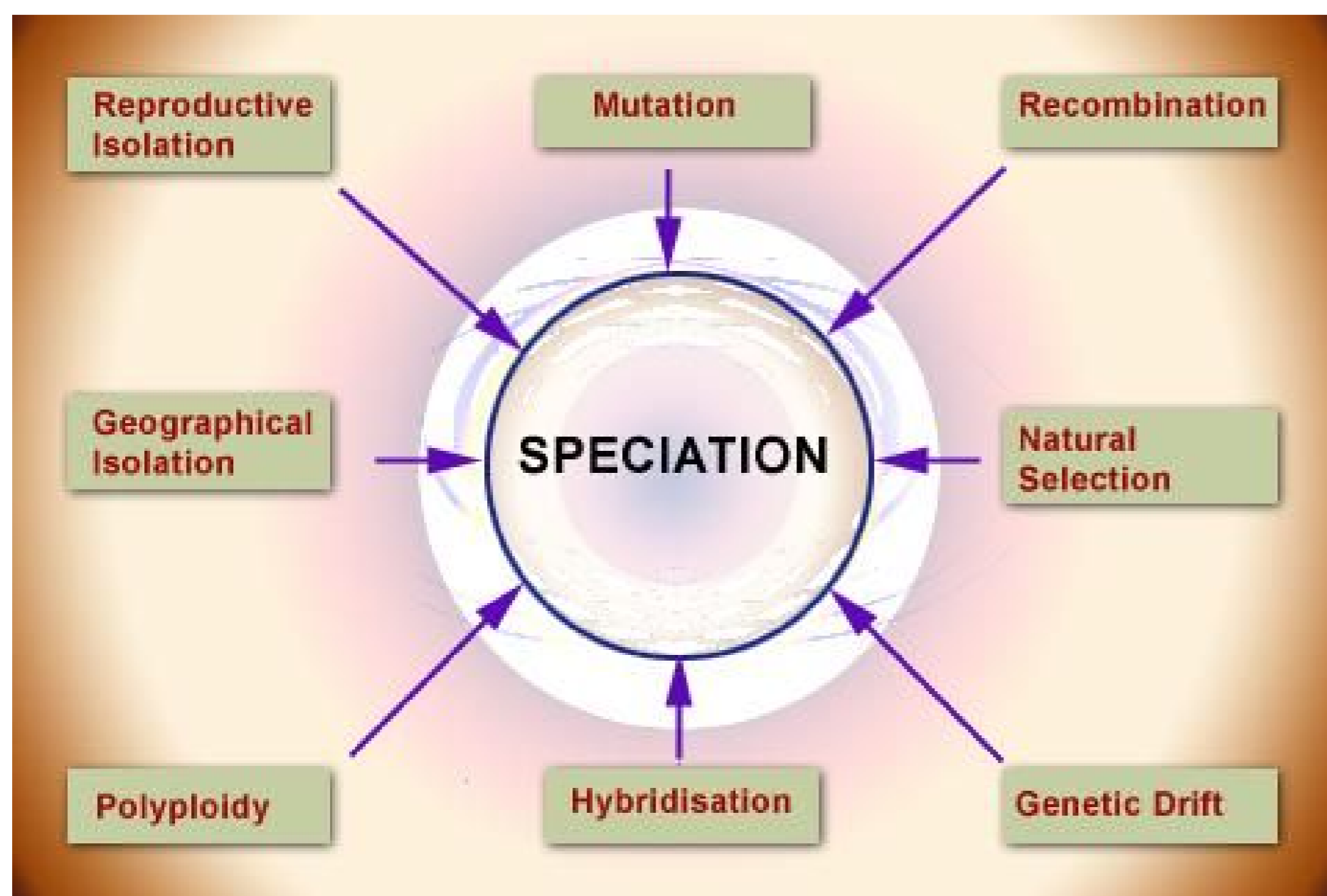


Case study based questions 10th Science

Heridity and Evolution

Passage - 1

5 Marks



While studying biology, Priya came across the word "Speciation". He searched the internet which provided answers to her questions. The following questions were asked by her.

Q1. (1) TRUE

Q2. (1) Natural selection

Q3. (1) TRUE

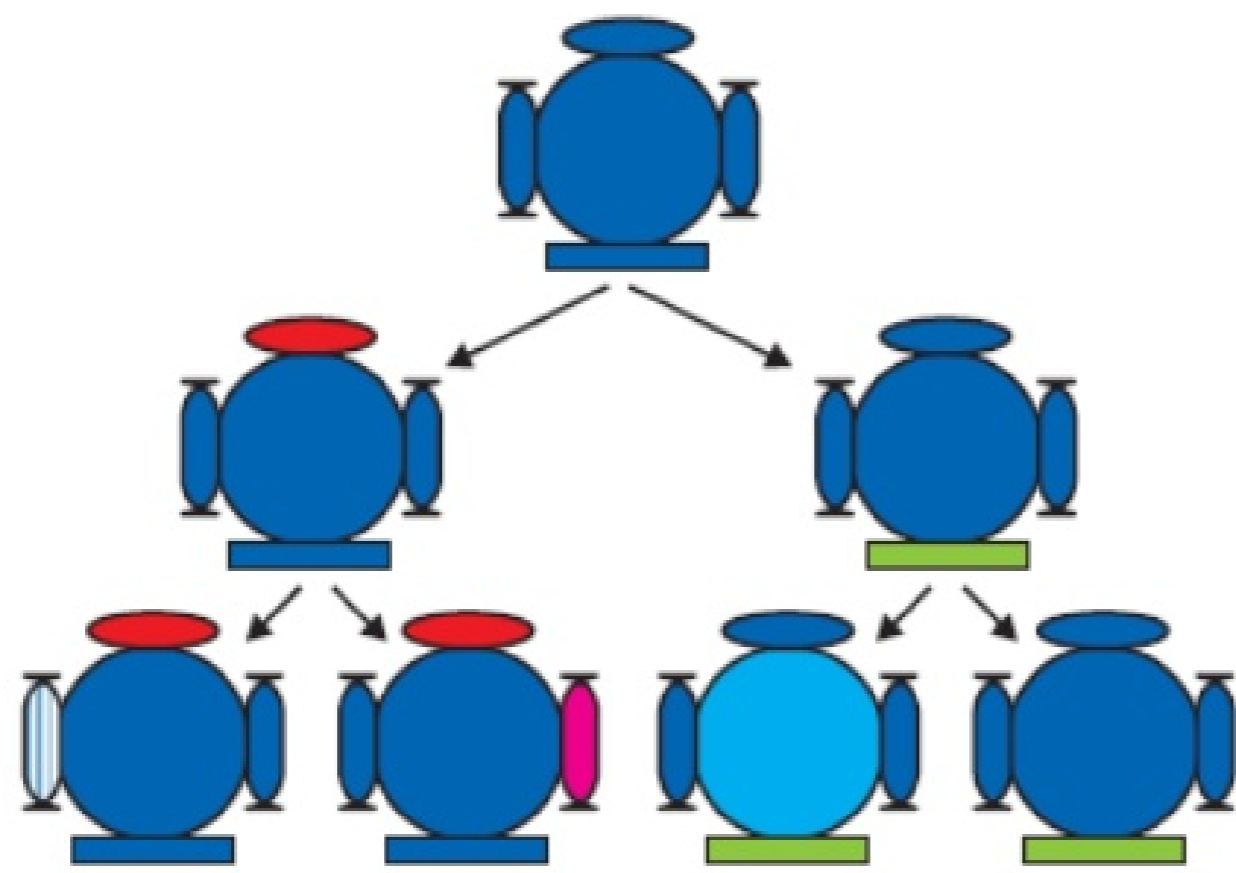
Q4. (2) NO

Q5. (1) YES

Passage - 2

5 Marks

Creation of diversity over succeeding generations



During a seminar, Renu saw the above slide. The picture was not clear to her so she asked certain doubts to her friends.

Q1. (1) TRUE

Q2. (2) Sexual reproduction

Q3. (2) NO

Q4. (1) Selection of variants

Q5. (1) DNA copying

Passage - 3

5 Marks



The image of an eminent scientist was shown to a class of students. The students were asked some important questions regarding the contributions of this person to the world of heridity and evolution.

Q1. (1) Mendel

Q2. (1) Plant breeding and hybridization

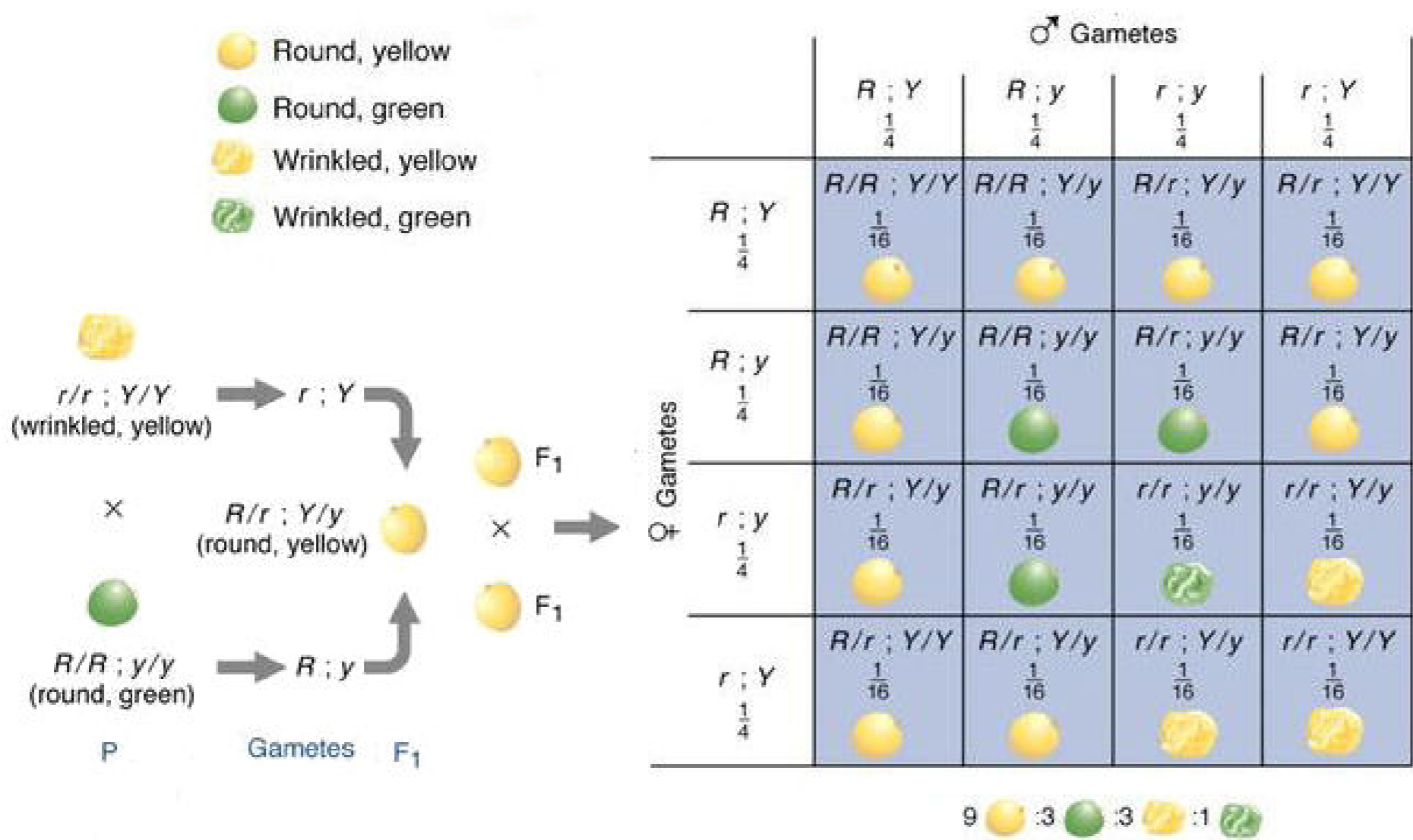
Q3. (2) Genetics

Q4. (3) Pisum sativum

Q5. (1) Garden Pea

Passage - 4

5 Marks



Students of class X were being taught about the cross conducted by Mendel to study inheritance. The students were asked certain questions at the end of the class.

Q1. (1) TRUE

Q2. (3) 3:1

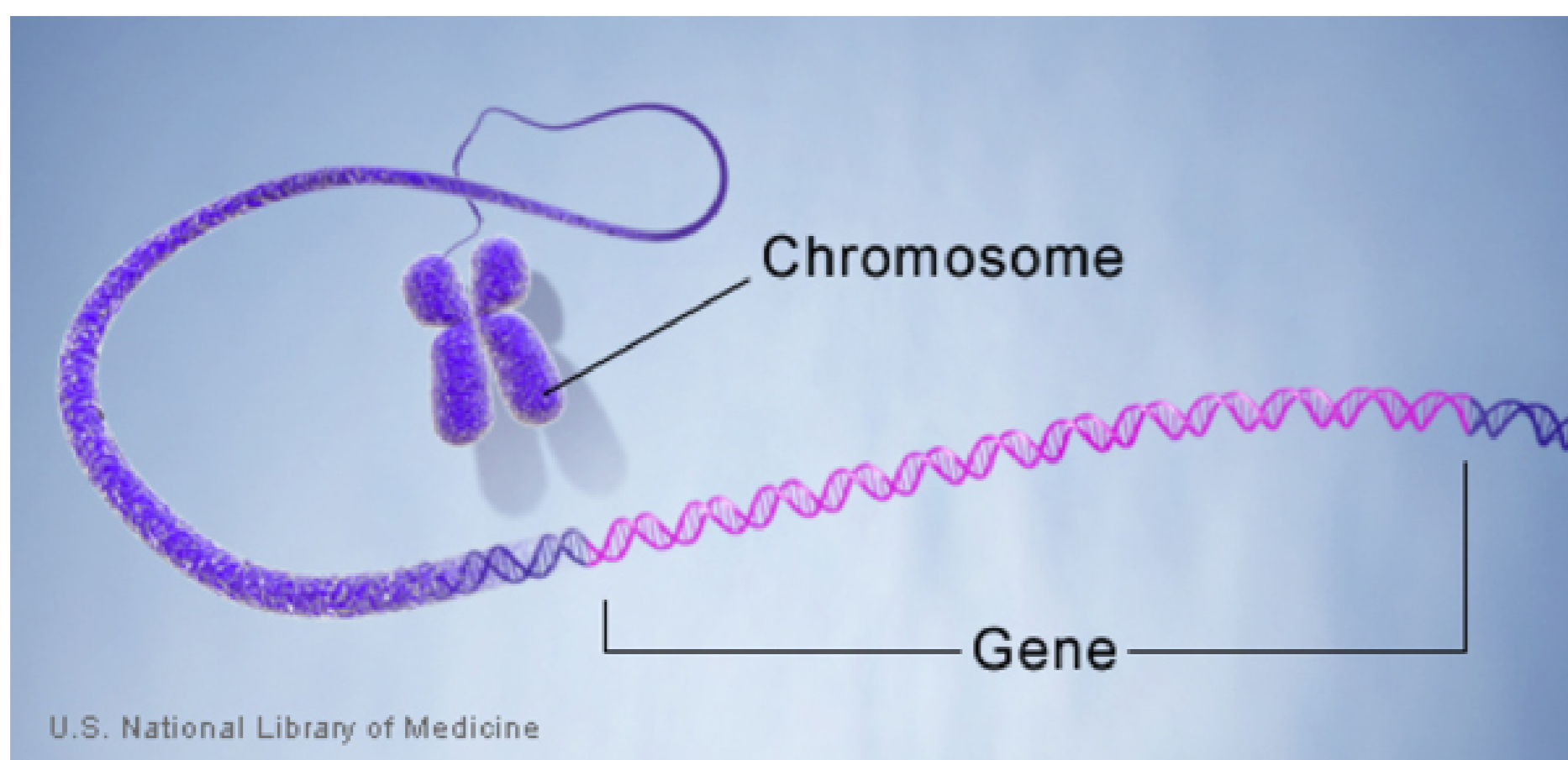
Q3. (4) 9:3:3:1

Q4. (2) Recessive

Q5. (1) Two capital letters

Passage - 5

5 Marks



The above picture of genes within a chromosome. Renu was solving a test paper, when some questions related to this picture arrived. Help her solve the questions.

Q1. (3) Both A and B

Q2. (1) TRUE

Q3. (3) Proteins

Q4. (1) 1 each from both

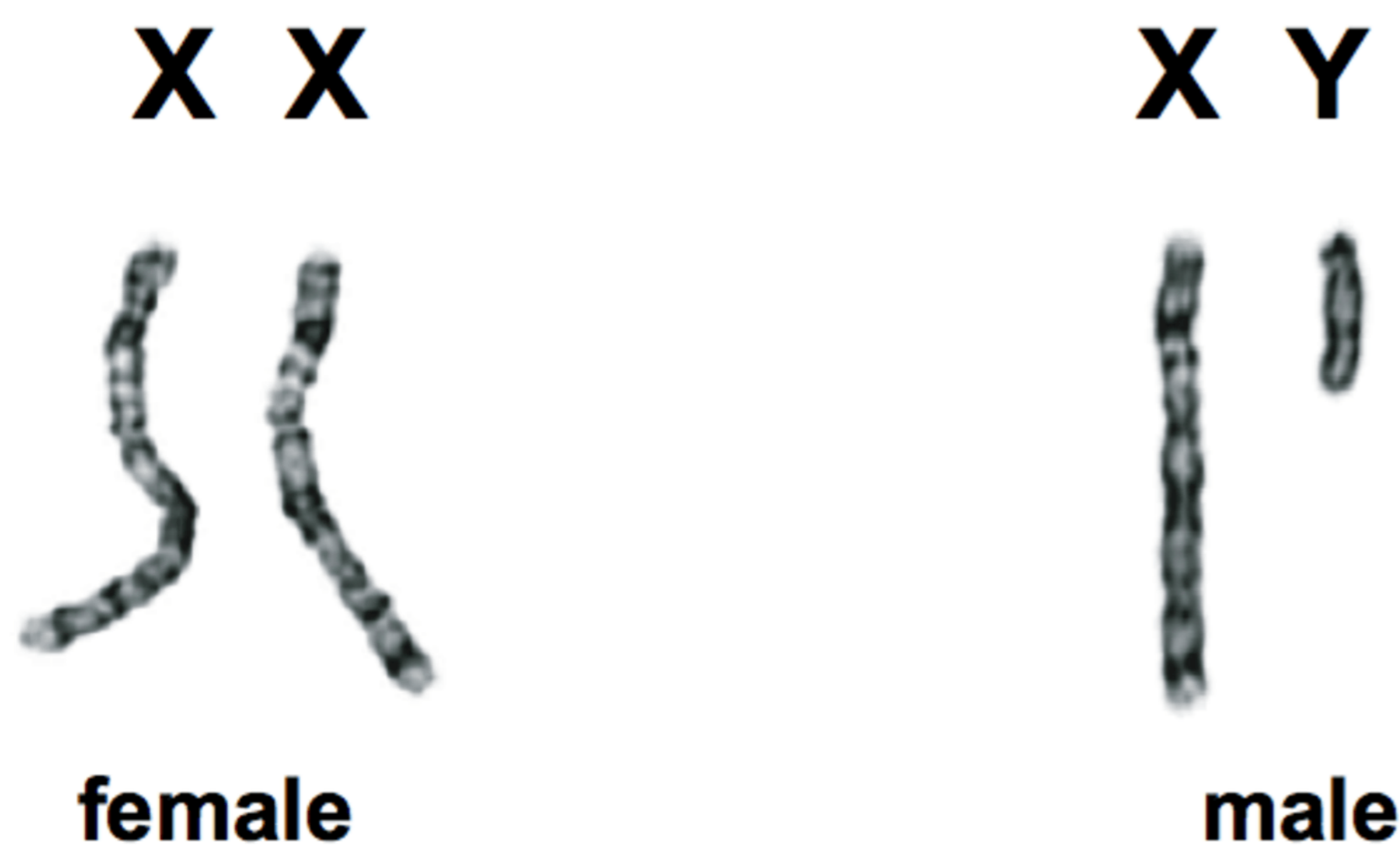
Q5. (2) Diploid

Case study based questions
10th Science

Heridity and Evolution

Passage - 1

5 Marks



The above image shows a pair of sex chromosomes. In a quiz conducted in class X, certain questions were asked related to this topic.

Q1. (1) 23

Q2. (1) 1

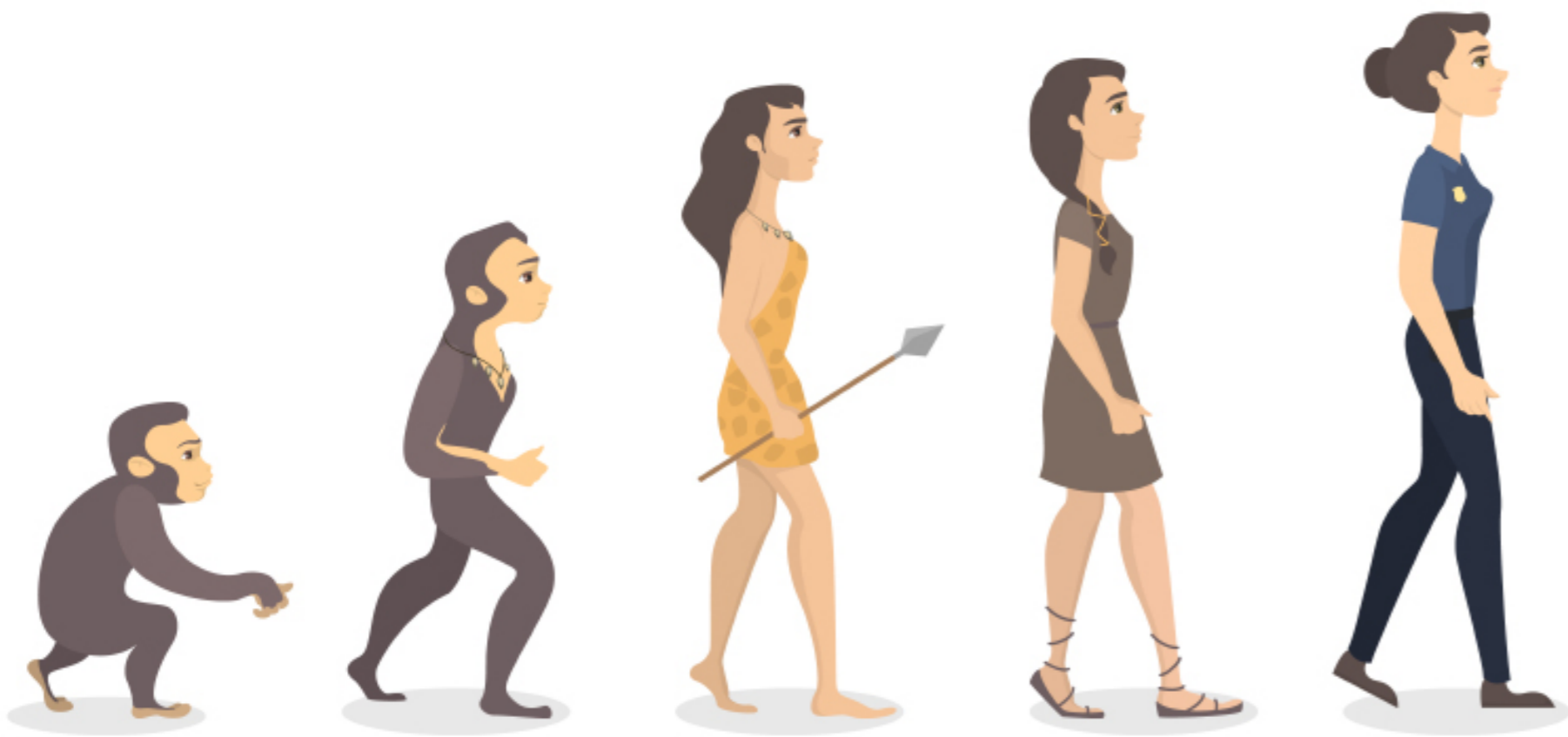
Q3. (2) 22

Q4. (2) Heterozygous

Q5. (1) Homozygous

Passage - 2

5 Marks



On a field visit to a museum, a group of students saw the above painting hanging on the wall.

Q1. (1) Evolution

Q2. (2) Genetic drift

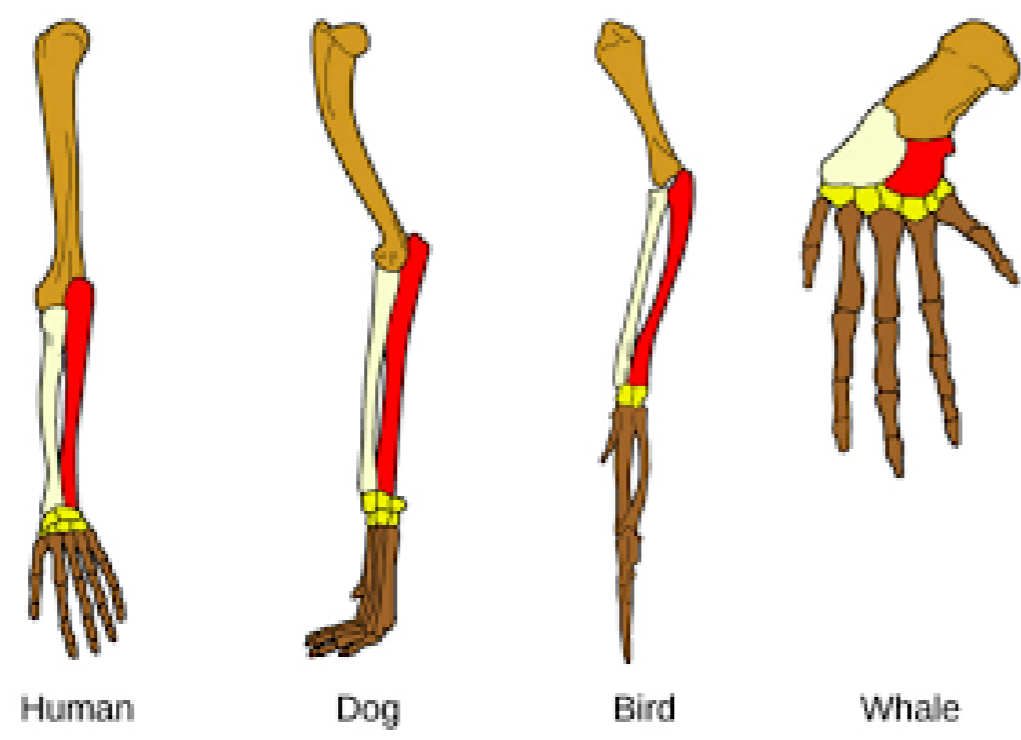
Q3. (1) TRUE

Q4. (2) FALSE

Q5. (2) Darwin

Passage - 3

5 Marks



Four types of bones were shown to the students as in the picture. The students were asked certain questions based on their observation.

Q1. (1) Homologous

Q2. (2) Analogous

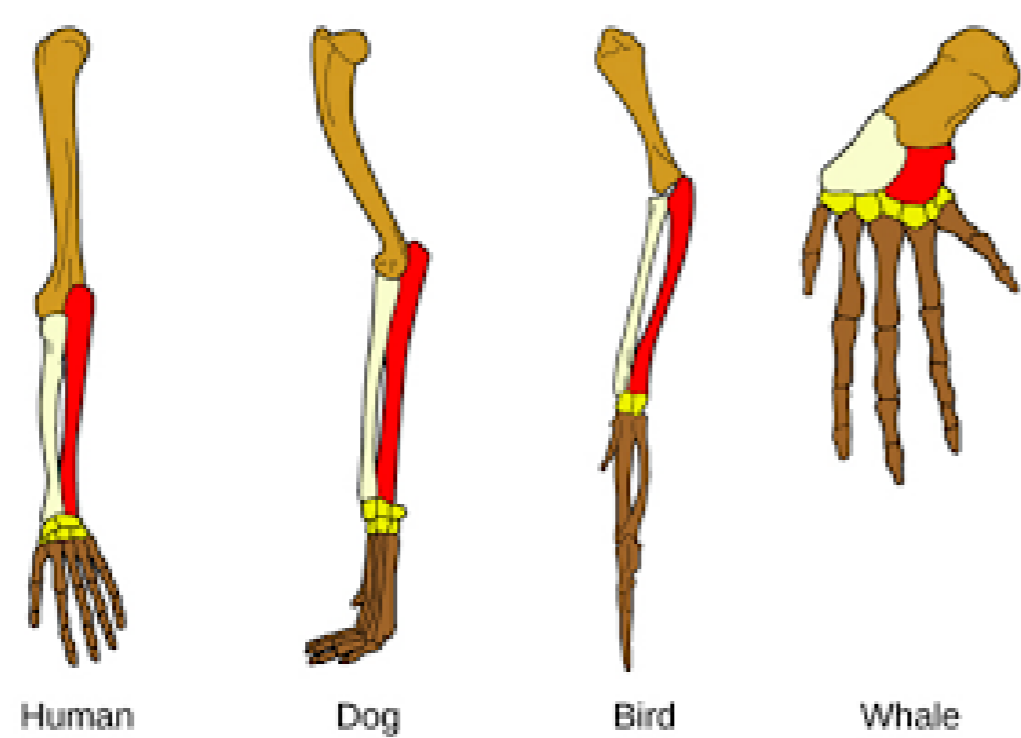
Q3. (1) Homologous organs

Q4. (2) Analogous organs

Q5. (2) Fossils

Passage - 4

5 Marks



Renu is given a project to find out about the details of the given picture.

Q1. (2) Fossils

Q2. (1) TRUE

Q3. (1) One step

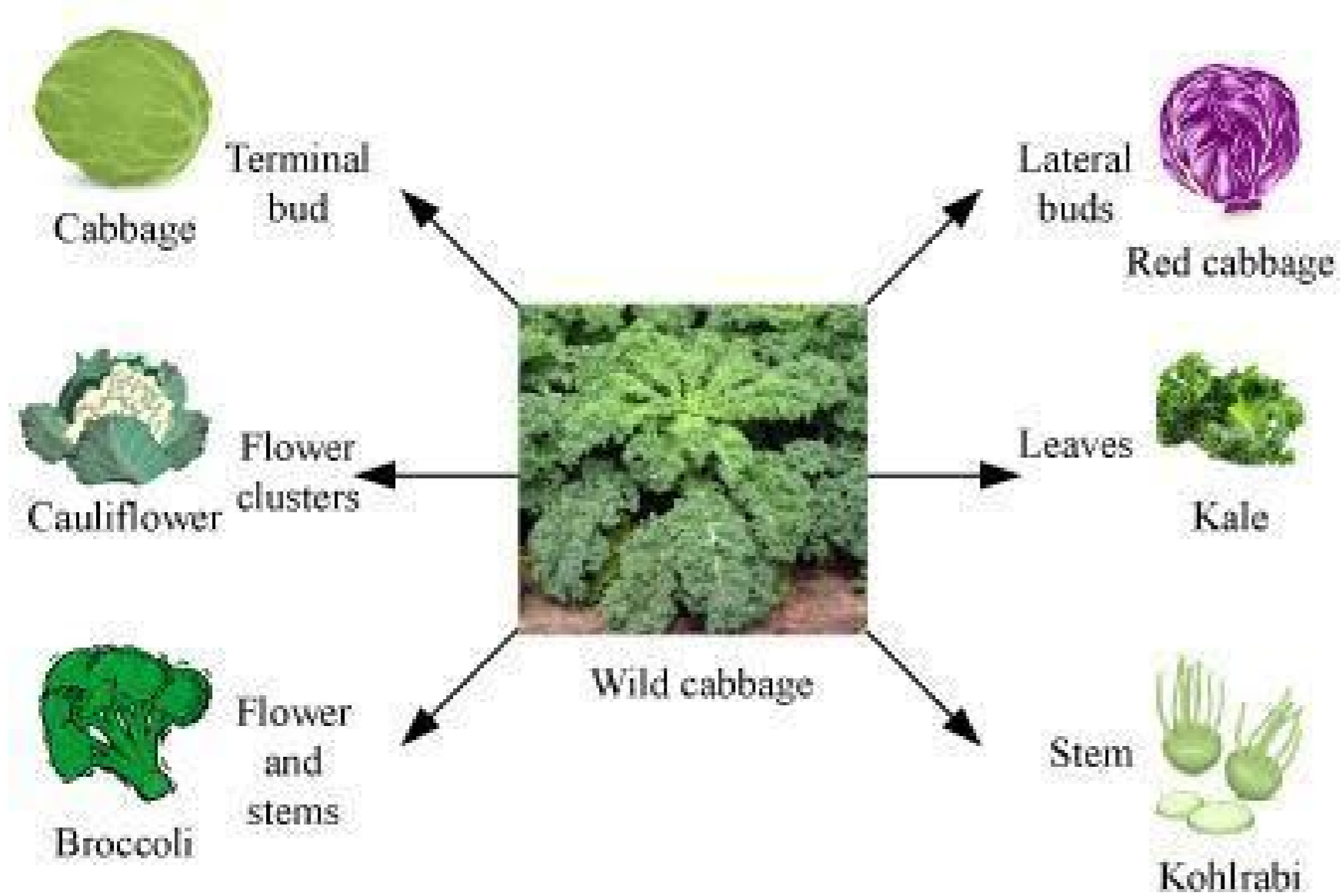
Q4. (4) All of these

Q5. (1) TRUE

Passage - 5

5 Marks

Evolution in the cabbage plant:



The image shows the evolution of cabbage over the ages.

Q1. (2) Artificial selection

Q2. (4) ALL OF THE ABOVE

Q3. (1) YES

Q4. (1) YES

Q5. (3) Spinach