



SHIKSHA CLASSES

BOARD QUESTION PAPER

Subject : Biology

Ch.:3. Inheritance and Variation

Total Marks : 25

Class : XII

Time : 1 Hr.

Section A

Q.1. : Select & write the most appropriate answer from the given alternatives for each sub-question. 4

- i) Mendel performed experiments on
a) Cow pea b) Chick pea c) Garden pea d) Pigeon pea
- ii) Sex determination in man is
a)XY-XX type b)XY-X0 type c)X0-XX type d) XY-XY type
- iii) The genotypic ratio of monohybrid cross will be.....
a) 1:2 b) 3:2 c) 2:1 d) 1:2:1
- iv) If the centromere is situated near the end of the chromosome, the chromosome is called
a) Metacentric b) Acrocentric c) Sub-Metacentric d) Telocentric

Q. 2. : Write the answer in ONE sentence: 2

- i) What is Phenotype?
- ii) Define: Linkage.

Section B

: Attempt any THREE. 6

Q. 3. : Give graphic representation of monohybrid cross.

Q. 4. : Give graphic representation of Dihybrid cross

Q. 5.: Why law of segregation is also called the law of purity of gametes?

Q. 6.: What is linkage? How many linkage groups do occur in human being and maize?

Section C

Attempt any THREE. 9

Q. 7.: Write a note on Haemophilia

Q. 8.: Write a note on pleiotropy.

Q. 9.: Give graphic representation of colour blindness $X^c Y \times X^c X^c$.

Q.10.: Explain the chromosomal theory of inheritance.

Section D

: Answer the following : (ANY 1)

4

Q.11.: State and explain Mendel's 3rd law of inheritance.

Q.12.: Explain sex determination in humans and honey bees.

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