



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 18.06.2020

CHAPTER: HEREDITY & COMMON GENETIC DISEASES

TOPIC: TERMS RELATED TO
HEREDITY PART 1

WORKSHEET 40

Choose the correct option:

(1X15=15)

- Locus can be considered as the specific location of
 - A gene
 - A DNA sequence
 - a chromosome
 - All of these
- A locus has an alternative form of a gene for a particular
 - Character
 - Trait
 - Both a&b
 - None of these
- The term Gene was first used by
 - Mendel
 - Boveri
 - Johannsen
 - Sutton
- The locus of the trait for white eye colour in *Drosophila* is on X chromosome. Where is the trait for red eye located?
 - Z chromosome
 - Y chromosome
 - X chromosome
 - Both b&c
- A gene is located at a specific region of 21st chromosome of a father. What will be the location of that gene in the son?
 - Different region of 21st chromosome
 - same location of 21st chromosome
 - Y chromosome
 - X chromosome
- Which of the following relationships between two alleles is mainly determined by the monohybrid cross?
 - Dominance
 - Recessive
 - Multiple allele
 - None of these
- Monohybrid cross gets its name as it is a cross involving
 - Male & female
 - one phenotypic character
 - Two different genes
 - None of these
- The phenotypic ratio of the of a monohybrid cross in pea plant is
 - 1:2:1
 - 4:1
 - 3:1
 - 1:3
- A dihybrid organism is
 - Heterozygous at same loci
 - Homozygous at same loci
 - Heterozygous at 2 different loci
 - None of these
- Smooth yellow traits of seed of pea plant is
 - Dominant & recessive respectively
 - Dominant
 - Recessive
 - Both b&c
- The F₂ phenotypic ratio of dihybrid cross performed in pea plants is
 - 1:2:1
 - 12:3:1
 - 9:3:3:1
 - 3:1
- Pea plants bearing red flowers are
 - Homozygous dominant
 - Homozygous recessive
 - Heterozygous
 - either a&c
- The genotype bb indicates the condition of
 - Heterozygous recessive
 - homozygous recessive
 - Heterozygous
 - Both a&b
- Which of the following is related to Hybridization?
 - Increases genetic variety
 - evolution
 - Both a&b
 - None of these
- The allelic combination of a heterozygous individual is
 - pp
 - Pp
 - PP
 - Both a&c

-Debjani Chakraborty