



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 07.11.2020

CHAPTER: HEREDITY & COMMON GENETIC DISORDER TOPIC: MENDEL'S WORK ON PEA PLANT
WORKSHEET 42

Choose the correct option:

(1X15=15)

- The phenotypic result of the Mendel's Dihybrid cross is
a. 1:2:1 b. 1:2:2:1 c. 9:3:3:1 d. 1:1
- Mendel carried out experiments on pea plants to understand mechanism of
a. Mutation b. Heredity c. Genetic disorders d. None of these
- Stamen of the flower of pea plant includes the _____ reproductive part.
a. Male b. Female c. Both a & b d. Vegetative part
- The genotypic ratio of Mendel's monohybrid cross of pea plant is
a. 1:1 b. 1:3:1 c. 1:2:1 d. 3:1
- Which type of process does Pea plants normally undergo?
a. Selfing b. Self-fertilization c. Cross-fertilization d. Both 1&2
- Mendel prevented self-fertilization in pea flower by removing stamens _____ pollen is produced.
a. Before b. After c. anytime d. None of these
- How many of the characters were chosen by Mendel to study the breeding experiments?
a. 8 b. 7 c. 9 d. 4
- The dominant trait for pod colour of pea plant is
a. Green b. Yellow c. Purple d. White
- Mendel performed his experiments with pea plant which included
a. Pure breeding strains b. Reciprocal cross c. Both 1&2 d. None of these
- For which of the following reason did Mendel choose pea plant for his experiments?
a. Easily cultivable b. Short growing season c. Both 1&2 d. None of these
- In F₂ generation of monohybrid cross of pea plant, the female gametes were
a. $\frac{1}{2}$ Y b. $\frac{1}{2}$ y c. $\frac{1}{4}$ Y d. Both 1&2
- The recessive trait for pod shape of pea plant is
a. Constricted b. Spherical c. Inflated d. Wrinkled
- The second Filial generation of Mendel's monohybrid cross produces ____ green offsprings
a. 50% b. 75% c. 25% d. None of these
- The process of fertilization of female and male gamete of the same plant is called
a. Selfing b. Back cross c. Test cross d. Hybrid
- A true breeding plant is
a. Homozygous b. Heterozygous c. Hemizygous d. None of these

-Debjeni Chakraborty