

STUDENT NAME : _____ FORM NO. : _____

MULTIPLE CHOICE TYPE QUESTION

1. Mendel worked on :
(A) Edible pea (B) Wild pea (C) Garden pea (D) None of these
2. When F_1 plants heterozygous for tallness are selfed, F_2 generation has both tall and dwarf plants. This proves the principle of :
(A) Dominance (B) Blended inheritance
(C) Law of segregation (D) Law of independent assortment
3. tt mates with Tt . What will be characteristic of offspring?
(A) 75% recessive (B) 50% recessive (C) 25% recessive (D) All dominant
4. Mendel formulated the law of purity of gametes on the basis of :
(A) Test cross (B) Back cross (C) Monohybrid cross (D) Dihybrid cross
5. The allele which is unable to express its effect in the presence of another is called :
(A) Co-dominant (B) Dominant (C) Recessive (D) None of these
6. Gametes of $AaBb$ individual can be :
(A) Aa , Bb (B) AB , ab (C) AB , ab , aB (D) AB , Ab , aB , ab
7. Dihybrid cross is related to the principle of :
(A) Dominance (B) Independent assortment
(C) Segregation (D) Purity of gametes
8. Which of the following is a recessive trait in garden pea?
(A) Tall stem (B) Wrinkled seeds (C) Coloured seed coat (D) Round seeds
9. In Mendel's experiment how many different kind of seeds are produced from a short plant with wrinkled seeds ($ttrr$)?
(A) 9 (B) 4 (C) 2 (D) 1
10. When a tall plant with round seeds ($TTRR$) crossed with a dwarf plant with wrinkled seeds ($ttrr$), the F_1 generation consists of tall plants with round seeds. What would be the proportion of dwarf plant with wrinkled seeds in F_1 generation?
(A) $1/4$ (B) $1/16$ (C) 0 (D) $1/4$