

STD:12 EM BIOLOGY – TEST SERIES Max Mark :25**C9-PLANT BREEDING****I CHOOSE THE CORRECT ANSWERS****5 x 1 = 5**

1. Assertion : Genetic variation provides the raw material for selection
Reason : Genetic variations are differences in genotypes of the individuals.

- a) Assertion is right and reason is wrong.
b) Assertion is wrong and reason is right.
c) Both reason and assertion is right
d) Both reason and assertion is wrong.

1. Match Column I with Column II

Column I

i) William S. Gaud

ii) Shull

iii) Cotton Mather

iv) Muller and Stadler

a) i - I, ii - II, iii - III, iv - IV

c) i - IV, ii - II, iii - I, iv - IV

Column II

I) Heterosis

II) Mutation breeding

III) Green revolution

IV) Natural hybridization

b) i - III, ii - I, iii - IV, iv - II

d) i - II, ii - IV, iii - III, iv - I

2. Crosses between the plants of the same variety are called

- a) interspecific
b) inter varietal
c) intra varietal
d) inter generic

3. Progeny obtained as a result of repeat self pollination a cross pollinated crop to called

- a) pure line
b) pedigree line
c) inbreed line
d) heterosis

4. The quickest method of plant breeding is

- a) Introduction
b) Selection
c) Hybridization
d) Mutation breeding

II VERY SHORT ANSWERS**3 x 2 = 6**

5. Differentiate primary introduction from secondary introduction.
6. What are the different types of hybridization?
7. Explain the best suited type followed by plant breeders at present.

III SHORT ANSWERS**3 x 3 = 9**

8. Write a note on heterosis.
9. List out the new breeding techniques involved in developing new traits in plant breeding.
10. How are microbial inoculants used to increase the soil fertility?

IV LONG ANSWERS**1 x 5 = 5**

11. Write a note on heterosis.

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