



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 14

Class: XII

Sub: Biological Science

Date: 15.06.2020

Topic: Mendelian Inheritance (Part B)

Non-mendelism (Part A) – Incomplete Dominance Co-dominance

F.M. : 15

Choose the correct option:

(1x15=15)

1. Law of dominance is violated by the phenomenon of :-
a) Incomplete dominance b) Co-dominance c) Epistasis d) All of these
2. The phenomenon of Linkage violates :-
a) Law of Dominance b) Law of Segregation c) Law of Independent Assortment
d) Both (b) and (c)
3. Limitations of the law of Segregation :-
a) Applies to diploid organisms only b) Not applicable on pleiotropic genes c) Not applicable on epistatic genes d) All of these
4. The phenomenon where one gene does not completely masks the effect of its recessive gene called :-
a) Incomplete Dominance b) Dominance c) Epistasis d) Co-dominance
5. The phenotype of F_1 generation in incomplete dominance is the :-
a) Phenotype of dominant allele b) Intermediate phenotype of both alleles c) Phenotype of recessive allele d) All of the above
6. The phenotypic ratio in incomplete dominance in F_2 generation is :-
a) 3:1 b) 2:1:1 c) 1:2:1 d) 2:3
7. Incomplete dominance is seen in :-
a) *Mirabilis jalapa* b) Andalusian fowl c) *Antirrhinum* d) All of these
8. A cross is made between a homozygous red snapdragon flowers (RR) and a white snapdragon (rr) flower. What would be the colour of the progeny in F_1 generation?
a) All red b) 50 % red and 50 % white c) All pink d) All white
9. The phenomenon where both allelic genes are equally and independently expressed in an organism :-
a) Co-dominance b) Blending inheritance c) Epistasis d) Pleiotrophy
10. Co-dominance is observed in :-
a) Coat colour of mice b) Coat colour of cattle c) Snapdragon d) All of these

11. If a black coat male cattle is crossed with a white coat female cattle. What is the phenotype of F_1 generation?
- a) All black b) Grey c) White d) Roan coat colour
12. The co-dominant gene pair of Human ABO blood group system is :-
- a) $I^A I$ b) $I^A I^B$ c) $I^B I$ d) None of these
13. What would be the genotype of a person with AB blood group ?
- a) $I^A i$ b) $I^A I^A$ c) $I^A I^B$ d) $I^B i$
14. Characteristic of ABO blood group is :-
- a) Presence of 3 alleles b) I^A and I^B are co-dominant c) i is recessive to I^A and I^B d) All of these
15. The glycoprotein present on RBC membrane of a person with AB blood group is :-
- a) Glycoproteins A and B b) Glycoproteins A c) Glycoprotein B d) None of these

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