





## A JESUIT CHRISTIAN MINORITY INSTITUTION WORK SHEET – 13

Class: XII Sub: Biological Science Date: 13.06.2020

**Topic: Mendelian Inheritance (Part A)** 

F.M.: 15

Choose the correct option: (1x15=15)	
1.	is known as Father of Genetics.
	a) Hugo De Vries b) Aristotle c) Gregor Mendel d) K.W. Wolff
2.	Gregor Mendel was an monk.
	a) Austrian b) Australian c) Egyptian d) Indian
3.	The name of the original paper of Mendel which was published in the journal of Brunn was
	entitled as :-
	a) Experiments on plant hybridization b )Proceedings of society c) Experiments of plant
	breeding d) Experiments on Genetics
4.	The reason why Mendel's work was ignored was :-
	a) His work was published in an obscure journal b) Scientists were busy with Darwinism c) Poor
	knowledge of cytogenetics d) All of these
5.	Scientist who re-discovered Mendelism :-
	a) Karl Correns b) Hugo de Vries c) Tschermak d) All of these
6.	Mendel carried out experiments using plant.
	a) Rose b) Pea c) Snapdragon d) Lily
7.	The following was not a pair of contrasting character selected by Mendel for his experiment :-
	a) Plant height b) Pod shape c) Pod number d) Pod colour
8.	The law of states that the alleles separate during gamete formation.
	a) Segregation b) Dominance c) All red d) None of these
9.	In a cross between pure red (RR) and pure white (rr) , the $F_1$ progeny will be :-
	a) All pink b) 50 % white and 50 % red c) All red d) None of the above
10.	The phenotypic ratio of F <sub>2</sub> generation of a monohybrid cross according to mendel is :-
	a) 2:1 b) 1:2 c) 8:4 d) 3:1
11.	The alleles not only separate but also distribute themselves indipedently state the law:-
	a) Law of Independent assortment b) Law of dominance c) Law of segregation d) Law of purity
	of gametes
12.	What is the phenotypic ratio of F <sub>2</sub> generation in a dihybrid cross:-
	a) 9:7 b) 9:3:3:1 c) 9:3:4 d) 15:1

- 13. A cross is made between pure round and yellow seeded pea plant (RR YY) and pure wrinkled and green seeded pea plant (rr yy). The F<sub>1</sub> generation will produce:
  - a) Round yellow seeded plants only b) Wrinkled green seeded plants only c) Both (a) and (b)
  - d) A new variety
- 14. The reason why Mendel selected pea plant :
  - a) Bisexual flower b) Short life span c) Can be cross pollinated and self pollinated d) All of these
- 15. The genotypic ratio of Mendelian monohybrid cross is :
  - a) 1:2:1 b)3:1 c) 1:1:2 d) 1:1

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