

## GENETICS – PRACTICE BITS

1. Who is considered as “Father of Genetics”? ( )  
A) T.H. Morgan    B) Bateson    C) Punnet    D) Mendel
2. Which plant was selected by Mendel for his experiments? ( )  
A) *Lathyrus*    B) *Dolichos*    C) *Pisum*    D) Lentil
3. Law of segregation is applicable to ( )  
A) All Plants    B) All Animals    C) All Prokaryotes    D) Both 1 & 2
4. Test cross ratio for Dihybrid cross is ( )  
A) 3:1    B) 1:1    C) 1:1:1:1    D) 9:3:3:1
5. Incomplete Dominance is found in ( )  
A) *Lathyrus*    B) *Mirabilis*    C) *Pisum*    D) Maize
6. A,B,O-Blood grouping is example for ( )  
A) Law of Dominance    B) Co-dominance    C) Incomplete Dominance    D) Linkage
7. The term “Genetics” was coined by ( )  
A) Mendel    B) T.H. Morgan    C) Bateson    D) Hutchinson
8. Crossing over occurs during ( )  
A) Leptotene    B) Pachytene    C) Diplotene    D) Zygotene
9. How many recombinants are formed in F<sub>2</sub> of Mendel’s Dihybrid cross? ( )  
A) 1    B) 3    C) 6    D) 9
10. Mendel experiments were rediscovered by ( )  
A) Hugo de Vries    B) Tschermak    C) Carl Correns    D) All of these
11. Phenotypic & Genotypic ratios are same in F<sub>2</sub> of ( )  
A) Incomplete dominance    B) Co-dominance    C) Mono hybrid cross    D) Both A & B
12. Phenotype for “Rr” in *Mirabilis* is ( )  
A) Pink    B) Red    C) White    D) Round
13. How many Double homozygotes are formed in F<sub>2</sub> of Mendel’s Dihybrid cross? ( )  
A) 9    B) 8    C) 4    D) 1
14. Variations occur due to ( )  
A) Crossing over    B) Dominance    C) Linkage    D) Coupling
15. Which of the following is used to know the unknown genotype? ( )  
A) Out cross    B) Back cross    C) Test cross    D) Reciprocal cross
16. Test cross ratio for Monohybrid cross is ( )  
A) 3:1    B) 1:1    C) 1:1:1:1    D) 9:3:3:1
17. Phenotypic ratio of Supplementary genes in F<sub>2</sub> is ( )  
A) 9:3:3:1    B) 9:3:4    C) 9:7    D) 15:1
18. Phenotypic ratio for Duplicate genes is ( )  
A) 9:3:3:1    B) 9:3:4    C) 9:7    D) 15:1
19. Phenotypic ratio for Complementary genes is ( )  
A) 9:3:3:1    B) 9:3:4    C) 9:7    D) 15:1
20. Phenotypic & Genotypic ratios are differ in F<sub>2</sub> of ( )  
A) Incomplete dominance    B) Co-dominance    C) Monohybrid cross    D) All of these

KEY-    1-D    2-C    3-B    4-C    5-C    6-B    7-C    8-B    9-C    10-D  
           11-D    12-A    13-C    14-A    15-C    16-B    17-B    18-D    19-C    20-C