BIOLOGY

BOOKS - JMD BIOLOGY (PUNJABI ENGLISH)

PRINCIPLE OF INHERITANCE AND VARIATIONS

Exercise

1. Fill in the blanks

_____ means that characters are passed on from parent to progeny.

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2. Fill in the blanks

A true breeding line is one that having undergone continuous _____.

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3. Fill in the blanks

Genes which code for a pair of contrasting traits are known as _____

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4. Fill in the blanks

Tall and dwarf plant produce gametes by the process of _____

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5. Fill in the blanks

The two alleles of a gene pair are located on _____ sites on homologous chromosomes.

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6. Fill in the blanks

Grasshopper is an example of _____ type of sex determination.

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7. Fill in the blanks

Sickle cell anemia is an _____ linked recessive trait.

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8. Fill in the blanks

Linkage and crossing over are _____ related.

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9. Fill in the blanks

More the _____ between two genes,more are the chances of _____.

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10. Fill in the blanks

The inborn errors of metabolism are gene controlled and are inherited in Mendelian fashion was pointed by _____.

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11. True and False Type Questions

Turner's syndrome is very common in male.

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12. True and False Type Questions

First time Haemophilia was recorded in queen Elizabeth.

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13. True and False Type Questions

Mutation due to change in a single base pair of DNA is point mutation.

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14. True and False Type Questions

Henking in 1891 described the bar body concept.

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15. True and False Type Questions

Drosophilia completes its life cycle in four weeks.

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16. True and False Type Questions

ABO is a good example of multiple allele.

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17. True and False Type Questions

Yellow seed colour is dominant over green one.

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18. True and False Type Questions

Law of segregation support the blending concept.

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19. True and False Type Questions

Bald head is due to use of wrong type of hair oil.

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20. True and False Type Questions

Sexually reproducing organisms contribute all the genes of their offspring.

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21. A diploid organism is heterozygous for 4 loci,how many types of gametes can be produced?

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22. Which disorder is caused in man due to presence of one extra sex chromosome ?

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23. Explain the following term:

Co-dominance.

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24. Explain the following term:

Incomplete dominance.

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25. Define and design a test cross?

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26. Differentiate between homozygous and heterozygous individuals.

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27. A haemophilic carrier female marries a normal man, with the help of punnet square, show the type of progeny formed.

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28. State the chromosomal theory of Inheritance.

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29. What are Point Mutations ? Give one example of Point Mutations.

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30. A child has blood groupO. If the father has blood group A and mother blood group B, work out the genotypes of the parents and possible genotypes of the offsprings.

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31. Explain Mendel's law of independent assortment with the help of a dihybrid cross.

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32. why did Mendel selected pea plant for his experimentation?

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33. What are the chromosomal abnormalities of Down's syndrome?

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34. Define aneuploidy. Name the aneuploid disease which occurs as a result of following chromosomal abnormalities: Presence of additional copy of chromosome X i.e., XXX.

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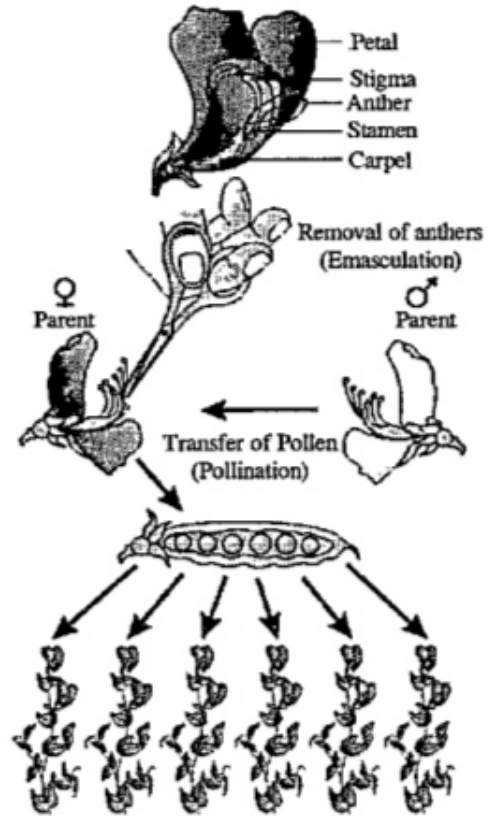
35. What is shown in the following figure.



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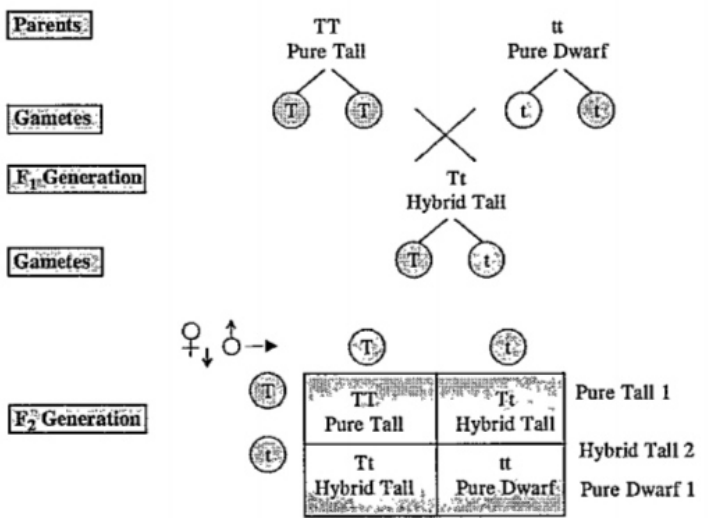
36. What type of cross is shown in the following figure? Also mention the phenotypic ratio of the below cross.



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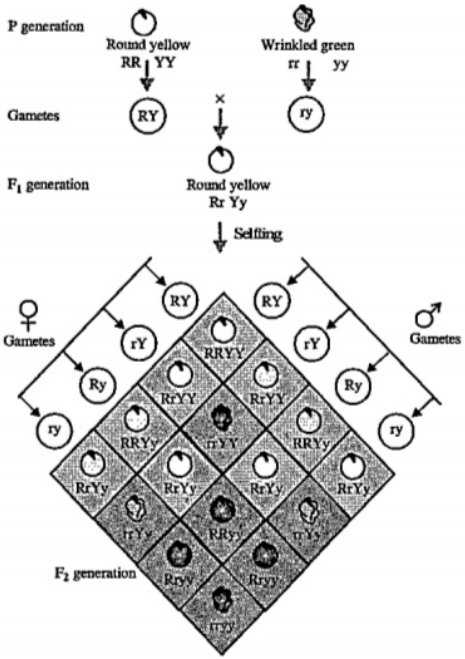
37. Find out the correct option regarding the following cross. Give the phenotypic as well as genotypic ratio.



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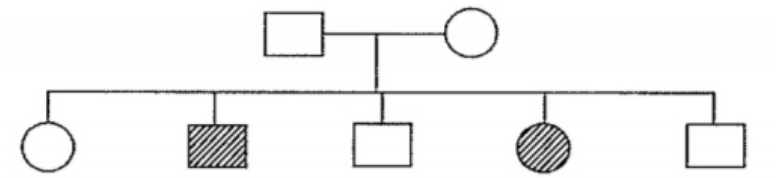
38. The pedigree chart given below shows a particular trait which is absent in parents but present in the next generation irrespective of sexes. Draw your conclusion on the basis of the pedigree.



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