



BIOLOGY

BOOKS - MBD -HARYANA BOARD

PRINCIPAL OF INHERITANCE AND VARIATIONS

Example

1. Mention the advantages of selecting pea plant for experiment by Mendel.



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2. Differentiate between the following :

Dominance and Recessive



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3. Differentiate between the following :

Homozygous and heterozygous individual



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4. Differentiate between the following :

Monohybrid and dihybrid.



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



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6. Explain the Law of Dominance using a monohybrid cross.



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7. Explain a monohybrid cross.



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8. Define and design a test – cross?



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9. Using a Punnett square, work out the distribution of phenotypic features in the first filial generation after a cross between a homozygous female and a heterozygous male for a single locus.



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green seeds($Tt yy$), what proportions of phenotype in the offspring could be expected to be tall and green



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13. Briefly mention the contribution of T.H. Morgan in genetics.



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14. What is pedigree analysis? Suggest how such an analysis can be useful?



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15. (a) How is sex determined in humans ?



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



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17. Explain the following terms with example:

CO-dominance



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18. Explain the following terms with example:

Incomplete dominance.



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19. What is point mutation? Give one example.



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20. Who had proposed the chromosomal theory of inheritance?



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21. Mention any two autosomal genetic disorders with their symptoms



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22. Name on trait that does not blend.



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23. Give one example of genetic trait for each of the following in humans:

Lethality



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24. Give one example of genetic trait for each of the following in humans:

Multiple allelism.



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25. What for symbols AA and Aa stand?



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31. Why is male *Drosophila* regarded as herterogametic?



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32. What is name of a cross in which white eyed female are cross with red eyed males?



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33. Coin one word or two words equivalents for the following:

The individuals having characters of both the parents.



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34. Coin one word or two words equivalents for the following:

the cytological manifestations of crossing during meiosis.



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35. Coin one word or two words equivalents for the following:

the gametes having genetic constitutions resembling one or the other parental type.



Watch Video Solution

36. Coin one word or two words equivalents for the following:

The basis of failure of two genes to assort independently.



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37. Coin one word or two words equivalents for the following:

the situation when two dominant linked alleles inheritance.



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38. Coin one word or two words equivalents for the following:

The individuals resembling one or the other parental type through several generations.



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39. Coin one word or two words equivalents for the following:

the genetic phenomenon involving new combination of genes.



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the characters linked to X and Y chromosomes.



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This result is genetically explained as



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58. A black-colour cock when bred with white coloured hen produced steel blue coloured offspring and when inbred, black, white and

steel -blue coloured progeny were obtained:

What will be the expected ratio of black, steel-blue and white progeny?



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59. Incomplete dominance and Codominance.



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gene. What is the mechanism of inheritance of the blood groups?



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$$I^A I^B \times I^B I^B$$



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63. What will be the blood groups of the children of following matings?

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64. What will be the blood groups of the children of following matings?

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Mendel in pea is now considered to be pleiotropic?



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69. Who proposed the chromosome theory of inheritance?State the chromosome theory of inheritance.



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70. Correlate between behavior of genes and chromosomes during meiosis in higher organisms.



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71. List the main points of chromosome theory of inheritance.



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72. What are types of linkage?



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73. Explain linkage Group.



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74. Differentiate between:

Complete linkage and incomplete linkage.





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75. Differentiate between:

Crossing over and cross over gametes.



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76. Write short notes on sex linkage



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77. Give example of sex linked inheritance in *Drosophila*.



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78. Why is a man unable to pass on a sex linked gene to his son?



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82. Tabulate the types of mutations.



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95. Why is Mendel considered as Father of Genetics?



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96. What is importance of Mendelism?



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100. Explain the law of independent assortment with a dihybrid cross.



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101. Describe quantitative inheritance taking skin colour in man as an example.



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102. Write a note on cystic fibrosis.



[Watch Video Solution](#)

103. What is the cause of phenylketonuria ?

Write symptoms.



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104. Write any four differences between somatogenic and blastogenic variations.



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1. Fill in the blanks with suitable words:

Human females are homogametic and males are..... .



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2. Fill in the blanks with suitable words:

Haemophilia is a disorder.



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3. Fill in the blanks with suitable words:

X-chromosome was previously named X-body
by



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4. Fill in the blanks with suitable words:

Turner's syndrome is due to of
chromosome



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5. Fill in the blanks with suitable words:

Klinefelter's syndrome is due to of extra
.....chromosome



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6. Fill in the blanks with suitable words:

down's syndrome is due to of
chromosome.



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7. Fill in the blanks with suitable words:

DNA fingerprinting was invented by



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8. State true or false:

Colour blindness is a sex linked disorder



[Watch Video Solution](#)

9. State true or false:

Human males are AA + XY and females are AA

+ XX.



[Watch Video Solution](#)

10. State true or false:

Haemophilia and colourblindness are Mendelian disorders.



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11. State true or false:

Klinefelter syndrome and Turner syndrome are

chromosome disorder



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12. State true or false:

In birds female has pairs of dissimilar sex chromosomes ZW.



[Watch Video Solution](#)

13. State true or false:

Human beings normally have 24 pairs of

chromosomes.



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14. Coin one word for the following statements:

The ancestral history of an individual represented by a chart.



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15. Coin one word for the following statements:

The occurrence of only one representative of a chromosome in an otherwise diploid cell.



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16. Coin one word for the following statements:

Particular segment of DNA which controls one character.





[Watch Video Solution](#)

17. Coin one word for the following statements:

Chromosomes other than sex chromosomes.



[Watch Video Solution](#)

18. Expand PKU.



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19. Genic balance theory was proposed by :

A. Bridges

B. Morgan

C. Boveri

D. Lyon.

Answer:



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20. Males are XO and females XX in case of :

A. Squash bug

B. Fishes

C. Man

D. None of these.

Answer:



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21. A male child would be born to parents is :

A. Father is healthier than the mother

B. Mother eats well during pregnancy

C. The gametic composition of the child includes XY combination of chromosomes.

D. None of the above

Answer:



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22. The gametic composition of child includes XX combination of chromosomes.



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23. What would be the ratio between colour blind and normal individuals in 2nd generation-progeny of colour blind man and normal woman?

A. 3 : 1

B. 1 : 3

C. 0: 4

D. 2: 2.

Answer:



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24. Philadelphia chromosome is reported in patients suffering from:

A. Insomnia

B. Kidney stone

C. Leukaemia

D. Mental disorders

Answer:



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25. Genetic disorder due to trisomy of chromosome 21 in humans is :

A. Down's syndrome

B. Turner's syndrome

C. Klinefelter's syndrome

D. None of these.

Answer:



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- A. Squash bug
- B. Fishes
- C. Man
- D. None of these.

Answer:



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44. If the female is carrier and male is normal, what percentage of female offspring will be haemophilic:

A. 0.25

B. 0.5

C. 0

D. 100%.

Answer:



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45. Sickle cell anaemia is due to :

- A. A virus
- B. Iron deficiency
- C. Haemoglobin deficiency
- D. Genetic disorder.

Answer:



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46. A male child would be born to parents if

A. Father is healthier than the mother

B. Mother eats well during pregnancy

C. The genetic composition of the child includes XY combination of chromosomes.

D. None of the above

Answer:



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47. The gametic composition of child includes XX combination of chromosomes.



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48. A man heterozygous for sickle cell anaemia will show in his blood:

A. some normal and some sickle-shaped cells

B. all the erythrocytes having sickle like shapes

C. more normal erythrocytes and a few sickle-shaped cells.

D. None of the above

Answer:



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49. What would be the ratio between colour blind and normal individuals in 2nd generation-progeny of colour blind man and normal woman?

A. 3:1

B. 1:3

C. 0:4

D. 2:2.

Answer:



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