

choose the correct answer.

Q. 1. which of the following is not a genetically controlled sex determining mechanism?

- (a) Heterogametes (b) biotic balance mechanism
(c) female haploidy (d) single gene effects.

Ans - (c) female haploidy.

Q. 2. 'x-body', was first of all noticed by

- (a) Miss Steven (b) Henking
(c) Wilson (d) Mc clung

Ans - (b) Henking.

Q. 3. who among the following scientists suggested that the x body was involved in some way with the determination of sex?

- (a) Steven (b) Henking.
(c) Wilson (d) Mc clung

Ans - (d) Mc clung

Q. 4.

Q. 4. who among the following found out the first x-linked recessive gene for white eye mutation in *Drosophila*?

- (a) Wilson (b) Mc clung
(c) Morgan (d) Henking.

Ans - (c) Morgan

Q 5. who among the following do not possess X-Y-XO type of chromosome set?

- (a) grasshoppers (b) True bugs
(c) Cockroaches (d) Drosophila

Ans - (d) Drosophila

Q 6. The kind of sex determination mechanism which uses the heterogametic females is called as:

- (a) Bixias (b) Abnaxs
(c) Tremitic (d) Name of the above.

Ans - (b) Abnaxs

Q 7. which of the following is not a heterogametic female?

- (a) female domestic chicken
(b) female domestic chicken
(c) female drosophila.
(d) Name of the above

Ans - (c) female drosophila.

Q 8. The genic balance mechanism of determination of sex was first of all studied in Drosophila by — in 1921?

- (a) holdschmidt (b) wilson
(c) Morgan (d) C.B Bridges.

Ans - (d) C.B Bridges.

Q 9. Which of the following Scientists have revealed the fact that most organisms generally have inherent potentialities for both sexes and each individual is found to be more or less intermediate between male and female sex?

- (a) C.B. Bridges and Wilson
- (b) Kupina and Walker
- (c) Wilson, Bridges and Goldschmidt
- (d) Wilson, Bridges and Walker

Ans - (c) Wilson, Bridges and Goldschmidt

Q 10. Which of the following statements about Linnæus's balance theory is false?

- (a) Sex is determined in *Drosophila* by the ratio of the X-chromosomes to the autosomes
- (b) Y-chromosomes are not of any importance in sex determination.
- (c) XO flies are fertile males.
- (d) Y-chromosomes contain male-fertility factors.

Ans. (c) XO flies are fertile males.

Q 11. The X-chromosomes have

(a) large amount of euchromatin and small amount of heterochromatin

(b) large amount of heterochromatin and