

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) Kulpina 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 Linnic 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) X0 flies are fertile males.
- (d) Y-chromosomes contain male-fertility factors.

Ans. (c) X-0 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



- less amount of euchromatin
- (c) Euchromatin and heterochromatin of equal amount.
- (d) less amount of heterochromatin and no euchromatin.

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

Q 12. Who among the following scientists showed that the autosomes also carry genes for sex determination?

- (a) Morgan
- (b) Wilson
- (c) Bridges
- (d) Goldschmidt

Ans - (c) Bridges

Q 13. The sex-linked disease haemophilia was first reported by.

- (a) John Cotto
- (b) Gardner
- (c) Sybenga
- (d) F. Baltzer

Ans - (a) John Cotto

Q 14. Which of the following is Turner's Syndrome?

- (a) XO (sterile female)
- (b) XXY
- (c) XO (fertile female)
- (d) None of the above.

Ans - (a) XO (sterile female)

Q 15. A person displaying true hermaphroditism having both ovarian and testicular tissues is suffering from.

Ans - A person displaying true hermaphroditism having both ovarian and testicular tissues is suffering from.



(a) Turner's Syndrome (b) Bleeder's disease

(c) Klinefelter's syndrome (d) Haemophilia.

Ans - (c) Klinefelter's Syndrome

Q 16. The sex chromatin in human tissue is found

(a) Attached to the nucleolus (b) free in the nucleoplasm

(c) Positioned inside the nuclear membrane

(d) all of the above.

Ans - (d) All of the above.

Q 17. Who among the following recognized the sex chromatin?

(a) John Cotto

(b) M.L. Barr

(c) Gardner

(d) Symberger.

Ans - (b) M.L. Barr

Q 18. In which stage of the cell cycle in humans the sex chromatin are visible?

(a) Throughout the cell cycle

(b) late Telophase

(c) early Interphase

(d) late Interphase

Ans - (d) Late Interphase

Q 19. The Barr bodies are

(a) Hetero-chromatinized Y-chromosomes.

(b) Hetero-chromatinized X-chromosomes