

- (c) Hetero-chromatinized Y-chromosomes
(d) Hetero-chromatinized X-chromosomes.

Ans -
Bee.

Q. 20 The XX male have:

- (a) No Barr body (b) One Barr body
(c) Two Barr bodies (d) Three Barr bodies

Ans - (b) One Barr body.

Q. 21 How many Barr bodies are present in
XXXX females?

- (a) Two (b) Three
(c) Four (d) None

Ans - (b) Three.

Q. 22. Who among the following are sex
chromatin positive?

- (a) Human males (b) Human females
(c) Human males and females (d) None of the above.

Ans - (b) Human females

Q. 23. Who put forward the Lyon hypothesis
for gene action on the X-chromosome?

- (a) M.L. Barr (b) Wilson
(c) M.F. Lyon (d) Morgan.

Ans - (c) M.F. Lyon.

Q 24. Who among the following lacks a hair body?

- (a) Male bird (b) Male butterfly
(c) Both (a) and (b) (d) None of the above.

Ans. (c) Both (a) and (b)

Q 25. In case of *Drosophila*,

- (a) The homozygosity induces femaleness
(b) The heterozygosity induces femaleness
(c) The heterozygosity induces maleness
(d) sex is not determined by homo or heterozygosity.

Ans. (b) The heterozygosity induces femaleness.

Q 26. In which of the following the quantity and quality of food decide the fertility of sexes?

- (a) Humman (b) *Drosophila*
(c) Bee (d) None of the above.

Ans. (c) Bee

Q 27. In which of the following sex determination is influenced by the differential action of single gene?

- (a) *Drosophila* (b) *Chlamydomonas*
(c) *Neurospora* (d) All of the above

Ans. (d) All of the above.

Q 28. In *Drosophila*, the homozygote for autosomal recessive allele ^{forms}.

- (a) A male
- (b) A female
- (c) Either (a) or (b)
- (d) Both (a) and (b)

Ans. (a) A male.

Q 29. Who among the following suggested that sex is a physiological equitable division between anabolic and catabolic individuals?

- (a) A.F. Shull
- (b) Crew
- (c) Riddle
- (d) D.D. Whitney.

Ans - (b) Crew

Q 30. Who found that a peculiar type of hormonal balance is involved in the differentiation of the gonads?

- (a) Whitney
- (b) Riddle
- (c) E. Witschi
- (d) None of the above.

Ans. (c) E. Witschi

Q 31. The hormones for maleness are produced by.

- (a) Cortex of gonads
- (b) Medulla of gonads
- (c) Both Cortex and medulla of gonads
- (d) None of the above

- (b) Medulla of gonads.