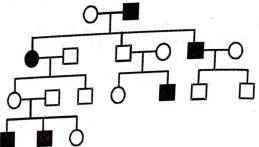




PARISHRAMA

BIOLOGY

31. In the following human pedigree, the filled symbols represent the affected individuals. Identify the type of given pedigree.



- (1) Autosomal dominant
- (2) Y-linked recessive
- (3) Autosomal recessive
- (4) X-linked dominant
- 32. Scientist(s) who rediscovered Mendel's principles is/ are

[NCERT XII Pg. No. 81]

- (1) Hugo de Vries
- (2) Carl Correns
- (3) von Tschermak
- (4) All of the above
- 33. _____ led to discovering the basis for the variation that sexual reproduction produced. [NCERT XII Pg. No. 83]
 - (1) Boveri
 - (2) Sutton
 - (3) Thomas Hunt Morgan
 - (4) Both (1) and (2)
- 34. Mendel worked with tiny fly *Drosophila melanogaster* for the following reason -

[NCERT XII Pg. No. 83]

- (1) It can be grown on complex medium
- (2) Single mating produces large offsprings
- (3) Sexes cannot be differentiated easily
- (4) They take a long duration to complete their lifecycle.

- 35. Phenotype of the organism bearing the genotype 'aabbcc' in polygenic inheritance w.r.t. skin tone of man is [NCERT XII Pg. No. 85]
 - (1) Very Dark (2) Dark
 - (3) Very light (4) Light
- 36. Where a single gene can exhibit multiple phenotypic expressions, such gene is called? [NCERT XII Pg. No. 85]
 (1) Multiple allele
 - (2) Polygenic
 - (3) Pleiotropic
 - (4) Incomplete dominance
- 37. Name the condition exhibited by the organism bearing a genotype 'AAXXXX'[NCERT XII Pg. No. 85]
 - (1) Allosomal tetrasomy
 - (2) Autosomal tetrasomy
 - (3) Allosomal trisomy
 - (4) Autosomal trisomy
- 38. Female heterogamety is shown by -

[NCERT XII Pg. No. 86]

- (1) Drosophila (2) Human
 - (4) Insects
- 39. In which of the following organism, males produce gametes by mitosis?
 - [NCERT XII Pg. No. 86]
 - (1) Human

(3) Birds

- (2) Drosophila
- (3) Grasshopper
- (4) Honeybee

40. Chemical or physical factors which causes mutations are called

[NCERT XII Pg. No. 88]

- (1) Oncogens
- (2) Substitution mutations
- (3) Frame shift mutations
- (4) Mutagens