

BIOLOGY NMDCAT

PMC UNIT WISE TESTS

TOPIC:

✓ Variations and Genetics / Inheritance

- Q.1** The sequence of nucleotides that determines the amino acid sequence of a protein is called:
 A. Gamete
 B. Chromatid
 C. Chromosome
 D. Gene
- Q.2** All the genes found in a breeding population at a given time are collectively termed as:
 A. Gene frequency
 B. Gene cluster
 C. Gene operon
 D. Gene pool
- Q.3** It is the genetic complement for a particular trait in an individual:
 A. Genotype
 B. Phenotype
 C. Genome
 D. Karyotype
- Q.4** Organism of pure line is that which produces individuals of
 A. Dominant characters
 B. Its own character type
 C. Recessive characters
 D. Intermediate type
- Q.5** The organism chosen by G. Mendel to explain the laws of inheritance was:
 A. *Homo sapiens*
 B. *Arabidopsis thaliana*
 C. *Pisum sativum*
 D. *Drosophila melanogaster*
- Q.6** All of the following are recessive phenotypes found in Mendelian experimental plant except:
 A. Constricted pod shape
 B. Wrinkled seed shape
 C. Green pod color
 D. Short plant height
- Q.7** In Mendel's monohybrid cross, short stem trait becomes recessive in F_1 generation. It will express in F_2 generation only when/in:
 A. Alleles express co-dominantly
 B. Alleles express via incomplete dominance
 C. Homozygous recessive condition
 D. Homozygous dominant condition
- Q.8** Mendel's law of segregation was based on the separation of alleles in the garden pea during:
 A. Pollination
 B. Seed formation
 C. Embryonic development
 D. Gamete formation
- Q.9** Depict the genotypic ratio of the cross between ' $Tt \times Tt$ ' plants:
 A. 3: 1
 B. 1:3:3:9
 C. 1: 2: 1
 D. 9:3:3:1
- Q.10** Keeping in view the Mendel's law of segregation, if tall plants were crossed with short heighted plants, then which of the following best describe the F_1 progeny?
 A. Homozygous and tall heighted
 B. Heterozygous and tall heighted
 C. Homozygous and short heighted
 D. Heterozygous and short heighted
- Q.11** A test cross is best described by:
 A. $TT \times Tt$
 B. $TT \times tt$
 C. $tt \times tt$
 D. $Tt \times Tt$
- Q.12** Mendel's law of independent assortment is not obeyed by:
 A. Dominant genes
 B. Mutant genes
 C. Recessive genes
 D. Linked genes
- Q.13** In Mendelian dihybrid cross, how many individuals are homozygous recessive for both traits in F_2 generation?
 A. 1/16
 B. 4/16
 C. 2/16
 D. 6/16
- Q.14** It is the chance of an event to occur:
 A. Product rule
 B. Summation rule
 C. Division rule
 D. Probability
- Q.15** With a genotype $AaBb$, the fraction of gametes that will contain 'ab' alleles is:
 A. 1/16
 B. 1/4

Mcq Of Genetics With Answers

N Colangelo



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