

EDUCOM ACADEMY

Important Questions

Chapter 9

Heredity and Evolution

5 Marks Questions

1. (i) Who provided the evidence of DNA as genetic material?
(ii) Why DNA is called polynucleotide?
(iii) List three important features of double helical model of DNA.

Ans. (i) Mendel.

(ii) DNA is made up many units of nucleotides.

(iii) Important features-

(a) Both the chains in helical runs anti-parallel.

(b) There two nitrogenous base Purine (A, G) and pyrimidine (T, C).

(c) A always bind with T and C always binds with G.

2. Give the basic features of the mechanism of inheritance.

Ans. Basic features of mechanism of inheritance-

(a) Each character is controlled by a pair of factors. The factors may be similar or dissimilar.

(b) When two dissimilar factors of a character are present in an organism, only one expresses itself while other remains unexpressed.

(c) Two factors of a character are separated at the time of gamete formation and get only one factor for that character.

(d) Inheritance of two or more pairs of contrasting traits in such a way that one pair of contrasting traits is independent of the other pairs of contrasting traits.