

Thoothukudi District
August Monthly Test, 2024

Time : 45 mts

Biology

Marks:25

Bio-Botany

Marks:13

Section A

5×2=10

Answer any six of the following :

1. What are called multiple alleles?
2. Define: Mutation
3. Give an account of gene mapping?
4. Name some examples for chemical mutagens.
5. Write any two significances of ploidy.
6. What is called synapsis?

Section B

1×3=3

Answer the following question:

7. Differentiate linkage from crossing over.

(Or)

Write the significance of crossing over.

Bio – Zoology

6×2=12

Answer any six if the following :

1. What are the functions of DNA polymerase enzymes?
2. Why tRNA is called an adapter molecule?
3. Give any two applications of DNA finger printing.
4. Differentiate – Leading strand and lagging strand.
5. State any two goals of Human genome project?
6. What is TATA box?
7. Name the properties of genetic material.
8. Name the anticodon required to recognize the following :

AGU, CGA, UAC and UCG.