

School of Agriculture

Agriculture
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem II - A1UA201B/AGRI1012/ BIO1003

Fundamentals of Genetics

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1. What is pseudoalleles K1 CO1 (5)
2. Define the special types of chromosomes. K1 CO1 (5)
3. Explain the supplementary epistasis. K2 CO1 (5)
4. Explain the sex determination. K2 CO1 (10)
5. Construct the crossing over and also explain its mechanism. K3 CO2 (10)
- 6) Analyze the allosomes and autosomes. K4 CO5 (10)

OR

- Categories the mutation and also explain its characteristics. K4 CO5 (10)
7. Identify the Qualitative & Quantitative traits. K3 CO2 (10)
 8. Construct the structure of plant cell with diagram. K3 CO2 (15)
 - 9) Explain the numerical variations in chromosomes K5 CO4 (15)

OR

- Explain the translation and transcription . K5 CO4 (15)
10. Compare the dihybrid cross and monohybrid cross. K4 CO3 (15)