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School of Agriculture**Bachelor of Science Honours in Agriculture
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - A1UA201B - AGRI1012 Fundamentals of Genetics***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Compare the gene and allele. K1 (2)
- 2) Explain the Architecture of chromosome K2 (4)
- 3) Summarize the Dihybrid cross with crosses. K2 (6)
- 4) Construct the features of pleiotropism and pseudoalleles . K3 (9)
- 5) Construct the stages of mitosis with diagram K3 (9)
- 6) Interpret the multiple allelism and also explain its features. K5 (10)
- 7) Analyze the chromosome mapping with diagram K4 (12)
- 8) Conclude the Epistatic interactions with example. K5 (15)
- 9) Conclude the mutation and also explain its characteristics. K5 (15)
- 10) Elaborate the features of the DNA(Deoxyribonucleic acid) K6 (18)