



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

School of Biosciences and Technology

Fall Semester (2023-24), CAT-I

Course Code : TBIT201L

Slot : B1+TB1

Class No. : VL2024250101183, VL2024250104111

Course Name : Genetics

Faculty Name : Dr. John Thomas / Dr. Aravind Selvin Kumar

Duration : 90 Minutes

Max. Marks : 50 Marks

Answer ALL questions

Question No	Questions	Marks
1.	Describe in detail the Mendelian laws with an example	10
2.	a. What is Epistasis ? Explain in detail with an example - 5 Marks b. Explain lethal gene with an example - 5 Marks	10
3.	Explain any two different inheritance patterns used in pedigree analysis	10
4.	a. How can genetic abnormalities be identified? Explain - 5 Marks b. Differentiate between monozygotic and dizygotic twins - 5 Marks	10
5.	A couple has been trying to conceive for the past three years without success. What could be the possible reasons for this delay, and what steps can they take to address the issue?	10