2111E734

Candidate's Seat No :_____

M.Sc Sem-3 Examination

502

Botany

Time: 2-30 Hours]	November-2024	[Max. Marks: 70
Q-1. Describe Linkage and R	ecombination in detail.	[14]
	OR	
Q-1(A) Write a note on the mitochondrial genome.		[07]
Q-1(B) Explain genetic mapp	ing.	[07]
Q-2 Describe the process of E	DNA replication.	[14]
	OR	
Q-2(A) Explain the structure of Nucleic Acids.		[07]
Q-2(B) Write a note on transc	cription in eukaryotes	[07]
Q-3 Describe the types of DN	A and RNA.	[14]
	OR	
Q-3(A) Explain RNA interfer	ence.	[07]
Q-3(B) Describe the PCR and	lits application.	[07]
Q-4 Describe the GMO and the	neir uses.	[14]
	OR	
Q-4 (A) Explain the NIH guidelines and biosafety regulation.		[07]
Q-4 (B) Write a note on IPR and patent.		[07]
Q-5 Attempt any seven out of	twelve.	[14]
1) Explain the law of seg	gregation of Mendelian genetics.	
2) Explain in brief: Trans	sposons	
3) Give the importance	of CRISPER.	
4) Give the names of an	y 2 research journals of Genetic Engineering	J.
5) Explain any two salie	nt features of the genetic code.	
6) What is central dogn	na? Who Proposed it?	
7) What is the significan	ce of DNA barcoding?	
8) What is cDNA library?	? How it is used?	,
9) What is microRNAs? I	Explain in brief.	
10) Give the full form of 0	GATT and WTO.	
11) What is the role of G	EAC?	
12) Give the importance	of nanomedicines.	