Roll No.								24-BC-24
----------	--	--	--	--	--	--	--	----------

M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION JUNE - JULY 2024

BIOCHEMISTRY

Paper - IV [Genetics]

	[Ger	ietics		
[Max . 1	Marks : 75] [Time : 3:	00 Hrs.]	[Min. Marks : 26]	
	Candidate should write his/her Roll Nun Student should not write anything on que Attempt five questions. Each question ca Each question carries 15 marks.	estion paper.	he question paper.	
Q. 1	examples.	·-	nt with (15 Marks)	
	O	OR .		
	Write notes on -			
	i) Incomplete dominance and co-d	ominance.	(7½ Marks)	
	ii) Crossing over.		(7½ Marks)	
Q. 2	Explain analysis of ordered and uno	rdered tetrads in fungi.	(15 Marks)	
	O	R		
	Write notes on -			
	i) Three factor genetic crosses.		(10 Marks)	
	ii) Interference.		(05 Marks)	
Q. 3	Explain process of somatic cell hybr	ridization in animals.	(15 Marks)	
	O	PR		
	Write note on -			
	i) Complementation test		(10 Marks)	
	ii) Recombination in bacteriophage	:	(05 Marks)	
Q. 4	Describe various methods of horizon	ntal gene transfer in microbes	(15 Marks)	
######################################		oR		

Give a brief account of Transposable Elements.

Q. 5 What do you mean by Mutation. Explain molecular basis of Mutation.

OR

Write notes on
i) Mutagenicity testing.

ii) DNA repair Mechanisms.

(15 Marks)

(15 Marks)

(15 Marks)

(15 Marks)

(15 Marks)

2 24-BC-24