

Paper: BI-521 Concepts in Molecular Biology & r-DNA Technology

CO1 Students will understand the processes of replication, transcription & translation in molecular biology

T1 Write differences between replication and transcription

T2 Write features of genetic code and Draw a codon table

Marks	Roll No	Test1	Test2	Total marks of attempted		Percentage	Score (3,2,1)	Target >= 60% (Y/N)
				questions	Marks			
			10	10	20	20		
	9051		8	9	17	20	85	3 Y
	9052		7	6	13	20	65	3 Y
	9053		8	8	16	20	80	3 Y
	9055		9	9	18	20	90	3 Y
	9056		9	8	17	20	85	3 Y
	9058		7	8	15	20	75	3 Y
	9059		8	9	17	20	85	3 Y
	9060		7	7	14	20	70	3 Y
	9061		7	6	13	20	65	3 Y
					Average		3	

%age	score
>=60	3
50-59.9	2
40-49.0	1

CO2 Students will be able to make a comparison between Eukaryotic and Prokaryotic Molecular mechanisms

A1 Differentiate between Eukaryotic and Prokaryotic Replication

A2 Compare ribosomes in Eukaryotes and Prokaryotes

Marks	Roll No	Assignment1	Assignment2	Total marks of attempted		Percentage	Score (3,2,1)	Target
				questions	Marks			
			10	10	20	20		
	9051		9	9	18	20	90	3 Y
	9052		7	7	14	20	70	3 Y
	9053		8	9	17	20	85	3 Y
	9055		9	9	18	20	90	3 Y
	9056		9	9	18	20	90	3 Y
	9058		8	9	17	20	85	3 Y
	9059		9	9	18	20	90	3 Y
	9060		7	7	14	20	70	3 Y
	9061		7	8	15	20	75	3 Y

Average **3**

CO3 Students will be able to demonstrate molecular mechanism(s) behind a biological process and its expression?

A1 Explain Prokaryotic and Eukaryotic promoters and highlight the major differences between them

A2 Explain control of gene expression in drosophila developmental stages

			Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks	Roll No	Assignment1	Assignment2				
		10	10		20		
	9051	9	8	17	20	85	3 Y
	9052	5	6	11	20	55	2 N
	9053	8	8	16	20	80	3 Y
	9055	9	8	17	20	85	3 Y
	9056	9	8	17	20	85	3 Y
	9058	8	7	15	20	75	3 Y
	9059	8	8	16	20	80	3 Y
	9060	5	6	11	20	55	2 Y
	9061	7	6	13	20	65	3 Y

Average **2.777778**

CO4 Students will be able to identify various tools used for cloning

T1 Write a short note on creating genomic and cDNA libraries

A1 Prepare a comparison table of different types of cloning vectors

			Total marks of attempted questions	Total Marks	Percentage	Score (3,2,1)	Target
Marks	Roll No	Test1	Assignment1				
		10	10		20		
	9051	9	9	18	20	90	3 Y
	9052	6	5	11	20	55	2 N
	9053	8	8	16	20	80	3 Y
	9055	9	9	18	20	90	3 Y
	9056	9	9	18	20	90	3 Y
	9058	8	8	16	20	80	3 Y
	9059	9	8	17	20	85	3 Y
	9060	7	7	14	20	70	3 N
	9061	7	6	13	20	65	3 Y

Average **2.888889**