T.Y.B.Sc. Examination, Oct - 2017

Microbiology

MI-301

(Virology, Molecular Biology, and Genetic Engineering)

Time:2 Hr. Code:8955

Marks:75

Instructions: 1) Right side indicates the marks of the respective questions

2) Draw a neat, clean and labeled diagram if necessary

Q-1.	A	Give a detail account on viral assay.	09
	В	Discuss the structure of T-Bacteriophage.	09
0.1		OR	09
Q-1	A	Discuss various types of plasmid used as vectors.	09
	В	Enlist the methods used to select mutants. Discuss any two methods in details	09
Q-2.	A	Give a detail account on structure of RNA	09
	В	How does lac operon work?	09
		OR	
Q-2.	A	Discuss various enzymes used in Genetic Engineering	09
	В	Give an account on transduction.	09
			0.0
Q-3.	A	Discuss principle and application of Western blotting.	09
	В	What is Bioinformatics? Give various application of Bioinformatics.	09
		OR	
Q-3.	A	Outline the process of protein synthesis on ribosome's	09
	В	Discuss Excision repair and Mismatch repair.	09
Q-4.	A	Write Short note on:	21
		1. Prions	
		2. Transposons	
		3. Genetic Code	
0.4	-	OR	2.1
Q-4.	В	Write Short note on:	21
		1. Gene Bank	
		 PCR R-DNA technology for Insulin production 	
		1. N=DDA ICCHIOLOSY TOLLINGUILL DIOUUCHOLI	