C 63079	(Pages : 2)	Name
		Reg. No
SECOND SEMESTER M	I.Sc. DEGREE EXAI	MINATION, JUNE 2019
	(CUCSS)	
	Microbiology	
MB 2C	05—MICROBIAL GEN	NETICS
	(2010 Admissions)	
Гіте : Three Hours	(= 0 = 0 = 0.000000000000000000000000000	Maximum : 36 Weightage
I. Answer <i>all</i> questions. Write bri	elly on the following. Each	n question carries 1 Weightage :
1 Theta replication.		
2 Thymine dimmers.		
3 Ames test.		
4 Recombination mapping.		
5 cl repressor.		
6 CRP.		
7 Simple transposons.		
8 MCS.		
9 Insertional inactivation.		
10 Reverse transcriptase.		
11 Microsatellites.		
12 Cosmids.		
13 Lambda replacement vecto	rs.	
14 RAPD.		
		$(14 \times 1 = 14 \text{ weightage})$
II. Write notes in one paragraph of	on any seven of the following	ng. Each question carries 2 weightage :
15 Type II restriction enzymes	-	

Turn over

16 Phagemids.

17 Regulation of lac operon.

19 Coupled transcription and translation.

18 DNA fingerprinting.

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- 20 Site specific integration of lambda.
- 21 Types of gene mutation.
- 22 pUC vectors.
- 23 E. coli DNA polymerases.
- 24 Prokaryotic genome organization.

 $(7 \times 2 = 14 \text{ weightage})$ 

- III. Answer any two of the following. Each question carries 4 weightage:
  - 25 What are the genetransfer mechanisms in bacteria?
  - 26 What are the applications of PCR?
  - 27 Classify the different types of transposons.

 $(2 \times 4 = 8 \text{ weightage})$