C 17225		(Pages : 2)		Name
				Reg. No
SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2011				
(CSS)				
MB 2C 05—MICROBIAL GENETICS				
(2010 admissions)				
/T: • /	Theory House	,	,	Maximum Weightage: 36
Time: Three Hours  Part A  Maximum Weightage				
Answer <b>all</b> questions.  Each question carries weightage of 1.				
1.	-Auxotrophs.	2.	Transformation.	
3.	Bacteriophage.	4.	Amber mutation.	
5.	Antisense DNA.	6.	Competent cells.	
7.	cDNA.	8.	Conjugation.	
9.	Directed mutation.	10.	Homologous recom	nbination.
11.	Conjugation.	12.	Okazaki ragment.	
13.	Open reading frame.	14.	Plus strand.	
				$(14 \times 1 = 14 \text{ Weightage})$
Part B				
Answer any <b>seven</b> questions.  Each question carries weightage of <b>2</b> .				
15.	Northern blot.			
16.	DNA repair mechanisms	<b>5.</b>		
17.	Lac Operon.			
18.	tRNA.			
19.	Methods of detection and isolation of mutants.			
20.	Repressor proteins.			
21.	Transposons.			
22.	Plasmids.			
23.	Transduction.			
				$(7 \times 2 = 14 \text{ Weightage})$

Turn over

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## Part C

## Answer any two questions. Each question carries weightage of 4.

- 24. Write notes on transcription factors.
- 25. DNA replication.
- 26. Horizontal gene transfer mechanisms.

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