KB-484

Seat No.



В.	Sc.	(Microbiology) (Sem. V) Examination October/November - 2017			
	MI-8	502	: Techniques in Gene Transfer		
Tin	ne : 3	Hou	Total Marks	70	
1	(a)	Ans	wer any two:	15	
		(1)	Discuss F plasmids in detail.		
		(2)	In Vitro plasmid Transfer.		
		(3)	Types of transposons.		
	(b)	Ans	wer in Brief :	2	
		(1)	Define: Conduction and donation.		
		(2)	Function of rep genes and tra genes.		
2	(a)	Ans	answer any two:		
		(1)	Discuss Griffith's experiment.		
		(2)	Discuss the experiment which proved that DNA and not RNA or protein is the genetic material.		
		(3)	Major steps in transformation process.		
	(b)	Ans	swer in brief :	2	
		(1)	Competence generally occurs in which growth phase?		
		(2)	Co-transformation		
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3	(a)	Answer any two:		
		(1) Discuss what is Specialized transduction and its role as a cloning vector.		
		(2) Co-transduction and linkage.		
		(3) Generalized Transduction by P 22 Phage		
	(b)	Answer in Brief :	3	
		(1) Define lysis and lysogeny by a phage.		
		(2) Cos site and its function.		
4	(a)	Answer any two:		
		(1) Interrupted mating		
		(2) Discuss Hfr Transfer into E. coli		
		(3) Time of entry mapping		
	(b)	Answer in Brief :		
		(1) Hfr strains		
		(2) Role of rec A proteins.		
		(3) Chi site.		

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