

R-3813-14

M. Sc. (Sem. IV) (Integrated Biotechnology) Examination

May/June - 2010 IBT-403 : Genetics

(New Course)

Time: 3 Hours [Total Marks: 70

R-3813

Instructions:

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	-	-	tails of 👉 signs	on your ans	wer book.	0				
		e Examina		And Distr	-1					
		<u> </u>	. 4) (Integra	ited Blote	cnnology)					
I —		e Subject :								
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S ı	ubject Co	ode No. :	3 8 1	3 Section	on No. (1, 2,)		s	tudent's	Signature	
(2)	Figu	ires to	the righ	t indicat	e full m	arks o	f the	ques	tion.	
(3)	Dra	w neat	t and lab	eled diag	grams wh	ierevei	nece	essary	у.	
(4)	Both	ı secti	ons must	be write	ten in se	parat	e ans	swer	books.	
1	Atte	mpt tl	he followi	ng ·						5
_	(1)	-	are intra	9	nd interg	enic ir	nterac	etions	?	_
	(2)		proposed		_				•	
	(3)		difference	_	-				nics.	
	(4)		is incom					-		
	(5)		is transv	_					F =	
2	` ′					a ani b a	:42 4-			10
4	WII	at is ii	nutation?	_	i and de O R	scribe	us ų	pes.		10
2	Door	owiha N	Mendal's l		Jĸ					10
4	Desc	cribe N	mendars i	aws.						10
3	Exp	Explain:								
	(a)	Gener	ralized tra	ansductio	n					5
	(b)	Bacte	rial Conji	ıgation.						5
				(OR					
3	Com	ment	on recom	bination,	describe	the v	ariou	s mo	dels.	10
4	Short notes: (any two)						10			
	(a)		sformation	,						
	(b)	Epista	asis							
	(c)	-	tics variat	ion.						
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Instructions:

(1)									
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	ame of the Examination :								
 • [M. Sc. (Sem. 4) (Integrated Biotechnology)								
1 -	me of the Subject :								
	BT-403 : Genetics (New)								
Su	bject Code No.: 3 8 1 4 Section No. (1, 2,): 2 Student's Signature								
(2)	Figures to the right indicate full marks of the question.								
(3)	Draw neat and labeled diagrams wherever necessary.								
(4)	Both sections must be written in separate answer books.								
5	Attempt the following:								
	(1) What is capping?								
	(2) Define spliceosome.								
	(3) What is degeneracy of genetic code?								
	(4) What are 'A' and 'P' sites?								
	(5) What is protein sorting?								
6	Describe at length transcription in eukaryotes.								
	OR								
6	Explain the mechanism of DNA replication.								
7	Compare and contrast translation in prokaryotes and eukaryotes.								
	OR								
7	Explain:								
	(a) 'Arabinose Operon' 5								
	(b) Why allolactose is inducer rather than lactose?								
8	Short notes on any two:								
	(a) t-RNA								
	(b) Splicing and its signification								
	(c) Attenuation.								
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