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Bachelor of Science (B.Sc.) Semester-IV Examination ZOOLOGY

(Molecular Biology & Immunology)

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Tim	ne—Three Hour	s] [Maximum Marks	<u></u> 50	
<u>.</u>	N.B. :- (1) (2) (3)	ALL questions are compulsory. All questions carry equal marks. Illustrate your answers with suit diagrams.	able	
1.	Describe the	Watson and Crick's model of DNA.	10	
		OR		
	Write notes o	n:		
	(A) mRNA a	and its functions.	5	
	(B) Griffith's	transformation experiment.	5	
2.	Give an account of translation mechanism of protein			
	synthesis.		10	
		OR		
 	Write notes o	n:		
	(A) Wobble	hypothesis.	5	
	(B) Meselso	n and Stahl's experiment.	5	
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3.	De	scribe in brief the structure, types and func-	tions of	2
	ant	ibody.	10	
		OR		٤
	Wr	ite notes on :		
	(A)	Organs of immune system.	5	
	(B)	Precipitation reaction.	5	
4.	Giv	e an account of classical and alternative comp	plement	بجيا
	patl	hways.	10	
		OR		
	Wr	ite notes on :		
	(A)	Cell mediated immune response.	. 5	
	(B)	Cytokine related diseases.	5	٠.
5.	Wri	te four or five lines on the following: (any	Гen) [
	(i)	Operator gene		
	(ii)	Z-DNA		
	(iii)	tRNA		
	(iv)	Structural gene		
	(v)	Initiation codon		
	(vi)	Bidirectional replication		Ti.
	(vii)	Inflammation	. •	
	(viii)	Immunodiffusion	*,	
	(ix)	Types of antigen		
	(x)	Opsonization		
•	(xi)	Interferon		ď
	(xii)	Rheumatoid arthritis.	-	
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