(i)	Pı	rinted Pages : 2		Roll No					
(ii)	Q	uestions : 9	Sub. C	ode: 1	7	5	5	2	
			Exam. C	ode:	0	0	0	6	
		B.A./B.S	c. (General) (2055)	6th Semeste	er				
			ZOOLOG	Y					
		Paper-	I : Genetics	(ZOO-601)					
Tir	ne Al	llowed : Three	Hours]	[Maxim	um	Mar	ks :	36	
No	te :-	- Attempt FIVE which is comp from Units I-IV	oulsory and s						
1.	Explain briefly:								
	(a)	Concept of Dominance							
	(b)	Somatic mutations							
	(c)	Test cross							
	(d)	Pseudo-allelism							
	(e)	Albinism							
	(f)	Wobble hypoth	esis						
	(g)	mRNA							
	(h)	Kappa particle	S.			15-3	1×8=	-8	
			UNIT—I						
2.	(a)	Describe the	modification	of Mendel	ian	phen	oty	oic	

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1

interaction, giving an example.

(b) What are lethal factors?

dihybrid ratio to 12:3:1 due to non allelic gene

[Turn over

5+2=7

Blood group inheritance in man (b) Inheritance of Quantitative traits. 3+4=7UNIT-II What is linkage? Discuss the phenomenon of crossing over giving its cytological basis. Give the properties of Genetic code. 5. (b) Explain DNA replication. 3+4=7UNIT-III Write notes on: 6. Physical & Chemical Mutagens. (a) Phenylketonuria. 4+3=7 (b) 7. Discuss operon model for gene regulation. 7 UNIT-IV 8. Describe the Hardy-Weinberg Law. (a) Explain transformation in bacteria and its importance. 4+3=7Discuss the process of recombinant DNA technology giving 9. its applications in agriculture and health. 7

3.

Write notes on: