B.Sc. Part-II Semester-IV Examination ZOOLOGY

(Advanced Genetics and Animal Ecology)

Time : Three Hours]							[]	[Maximum Marks: 80	
Note	e :—	-(1)	All questions are compulsory.						
		(2)	Question No. 1 carries 8 marks and all remaining questions carry 12 marks each.						
		(3)	Draw well labelled diagrams wherever necessary.						
1.	(A)	Fill	Fill in the blanks:						
		(i)	The gene which is able to express itself in F ₁ generation is called					led	
		(ii)	In Drosophila fertility of male is dependent on the presence of chromosome						
		(iii)		is usually pgnancy.	erformed in t	he second	trimester between	15 and 18 weeks of	
		(iv)		is a collerrelated.	ection of comn	nunities of	both living and nor	a-living things that are 2	
	(B)	Cho	ose c	correct alternati	ve:				
		(v)	Blo	od group	belongs to ca	ategory of	universal donor.		
			(a)	Α		(b)	0	•	
			(c)	AB		(d)	В	,	
		(vi)	In T	Turner's syndro	me the people				
	-		(a)	Barr bodies		, ,	Nucleus		
				Haemin crysta		(d)	Nucleolus		
		(vii)		is a multiple	_				
			(a)	Colour blindn	ess	` '	Amniocentosis		
			(c)	Skin colour			PKU		
		(viii)	Crossing over is advantageous because it brings about						
			(a)	Linkage			Variation	•	
			(c)	Inbreeding .		(d)	Stability	2	
	(C)			in one sentence					
		٠,		at causes Dow	-	?			
		(x)		at is estuarine	•				
		. ,		at is Gynandro	-			·	
2	(xii) What is holandric inheritance? Explain law of segregation with example.							4	
2.	Exp	iain i	aw o	i segregation w	_	OR			
	Des	cribe	Sup	plementary and				12	
WPZ	Z33 6	53				1		(Contd.)	

OR

Estuarine ecosystem.

(v) Autotrophs and Heterotrophs.

(u) Trophic level.

(w) Food web.

(x) Ecotypes.

(t)

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