	(p) Gene probe	
	(q) Chorionic villus sampling	
	(r) Male birth control measures.	12
Š.	Give an account on water problems in terrestrial hab	itat.
	OR	-
	Explain the biological effects of light with reference	e to
	reproduction, pigmentation, photokinesis	and
	photoperiodism.	12
7.	Write an account on the following:	
	(s) Characters of lentic ecosystem	b 4
	(t) Characteristics of estuary	
	(u) Food web.	
	OR.	
	(v) Ecotype	
	(w) Component of a fresh water lentic ecosystem	D
ı.'	(x) Food chain.	12

(Advanced	Genetics and Animal Ecolog	y)
Time—Three Hours] [Maximum l	Marks —80
N.B. :— (1)	All questions are compulsory.	
(2)	Question No. 1 carries 8 remaining questions carry 12 r	
(3)	Draw labelled diagram wherever	r necessary.
1. (A) Fill in the	e blanks:	2
×	is the study of the interrexists between organism and its	
	h character of a pair of contrastin	g characters
	the basis of sex chromoson duces types of sperm/	
(iv) Ae	stivation is also called as	sleep.
UWO-42423	1	(Contd.)

B.Sc. Part-II (Semester-IV) Examination

4S: ZOOLOGY

		character? What do you mean by Dizygotic Twins?		(n) (o)	Amniocentesis Inheritance of eye colour in Man.	٠
		What is Autecology? According to Mendel, what is a recessive		(m)	Fraternal Twins	
	(x)	When is the synapsis initiated?	5.	Exp	lain the following:	
		swer in one sentence : 4		(1)	Klinefelter's syndrome.	12
	<i>6</i>	(c) Earthworm (d) Sycon		(k)	Sex determination in human	
		(a) Planaria (b) Euglena		0)	Autosome and sex chromosome	
	(viii	i) is a positively phototactic animal.			OR	
	٠.	(c) Equal to (d) None of these		(i)	Types of Gynandromorph.	*
		(a) More (b) Less		(h)	Down's syndrome	
		than the number of genes in a cell.		(g)	Inheritance of Haemophilia	
	(vii	i) The number of chromosomes are	4.		scribe the following:	12
*		(c) Tyrosinase (d) None of these		(f)	Multiple alleles.	. 10
		(a) Albinase (b) Milaniase		(e)	Significance of crossing over	
	(**	i) An albino person does not produceenzyme.		(d)	OR Incomplete linkage	·
	(vi	(d) Lentic ecosystem		(c)	· ·	
	4.	(c) Marine ecosystem	• •	(b)	, and the same same same same same same same sam	
		(b) Fresh water ecosystem		(a)	***	
		(a) Terrestrial ecosystem	3	. Ex	plain the following:	
*				Ex	plain supplementary factor.	12
	(v	Boot of the coosystems on			OR	ssortment.
		hoose the correct alternative: 2 is the largest of all ecosystems on earth.				ssortment