	(o) Birth control measures in Male.			AR - 567		
	OR		Fourth Semester B. Sc. (Part - II) Examination			
	(p) Amniocentesis.			4S-ZOOLOGY		
	(q) Consanguineous marriages		(A P. Pages :	dvanced Genetics and Animal Ecology) 4		
	(r) Gene Probe.	12	~	ree Hours] [Max. Marks: 80		
6.	Give an account of water problems in Aqui Habitats. OR		Note	e: (1) All questions are compulsory. (2) Question No. One carries 8 marks and remaining questions carry 12 marks each. (3) Draw neat labelled diagram wherever necessary.		
	Describe the effect of light with reference Reproduction, Migration and Metamorphosis animals.		1. (A)	Fill in the blanks. (i) Hibernation is also known as ———.		
7.	Explain the following:— (s) Food chain.			(ii) Exchange of chromosomal segments in homologous chromosomes is called ——.		
	(t) Ecological pyramid of energy.			(iii) Temperature is ——— environmental factor.		
	(u) Lentic ecosystem. OR			(iv) The failure of homologous chromosomes to separate is called ——. 2		
	(v) Food web.		(B)	Choose correct alternative.		
	(w) Characteristics of Marine ecosystem.(x) Lotic ecosystem.	12		(v) Inheritance of human skin colour depends on ——— pigment.		
		1. 60		(a) Haemocyanin(b) Melanin(c) Haemoglobin(d) bilirubin		
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	(vi) Twins produced from a single zygote are				3.	3. Describe the following:—			
		called ——.	a s			(a)	Linkage group.		
		(a) Identical	, ,	Fraternal		(b)	Blood group in man.		
		(c) Cotwins	(d) Half twins			(c)	Mechanism of crossing over.		
	(vii)	i) In ———— interspecific interaction member of one species eats up those of					OR		
		another species.	103 0	us up those or		(d)	Erythroblastosis foetalis.		
		(a) Parasitism	(b)	Predation		(e)	Meiotic crossing over.		
		(c) Competition	(d)	Mutualism		(f)	Multiple alleles in relation to eye color		
	(i) Genetic counselling	is th	the advise about		(1)		2	
		diseases.	diseases.		4.	Exp	lain the following :—		
		,	(b)	b) Genetic d) Heart 2		_	Autosomes and sex chromosomes.		
			(d)			(g)			
((C) Answer in one sentence.(ix) What is law of segregation also called?					(h)	Environmental control of sex determination	n.	
						(i)	Diabetes mellitus.		
	(x)	What is the signific	of linkage?			OR			
	(xi)) Define a syndrome.				(j)	Hormonal control of sex determination.		
		.) What is photoperiod	liem	? 4		(k)	Edward's syndrome.		
2 =					(1)	Alkoptonuria.	2		
	Explain Law of Independent Assortment with example. OR			5.	Des	cribe the following :			
0.				٥.		-			
				ors. 12		(n)	Chorionic vill-Sampling. Siamese twins.		
		infilotory and icular	iact	013. 12.		(11)	Gianiose (wins.		
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