	(p)	Cleavage in Amphioxus							
	(q)	Fate map of frog							
	(r)	Significance of extra embryonic membranes (any two membranes).							
7.	Explain the following:								
	(s)	Yolk Sac Placenta							
	(t)	Significance of Parthenogenesis							
	(u)	Regeneration in vertebrates (one example).							
		OR							
	(v)	Uses of stem cells							
	(w)	Functions of Placenta (any two)							
		Arrhenotoky Parthenogenesis. 12							
		Andrew Company of the State of							
	12	imitativo cerby at ambiam at automos							
		and the state of t							
		with the state of							
		The state of the s							

8050

UBS 48788

B.Sc. (Part—I) Semester-II Examination 2S: ZOOLOGY (Cell & Developmental Biology)

Time—T	hree Hours]	[Maximum Marks—80						
N.	B. :— (1)	All questions are compulsory.						
	(2)	Question No. 1 carries 8 marks & remaining questions carry 12 marks each.						
	(3)	Draw neat labelled diagram wherever necessary.						
1. (a)	Fill in the blanks:							
	(i) Chromosomes have been classified into and sex chromosomes.							
	(ii) During stage the chromosomes are arranged at equatorial plate.							
		During stage of respiration, glucose is broken down into pyruvic acid.						
	(iv) Fusion	of male and female gametes forms						
		2						
(b)	Choose the correct alternative from the following:							
	(v) are the reproductive cells.							
	(a) E	pithelial cells (b) Muscle cells						
-	(c) C	dametes (d) None of these						
UBS 487	88	1 Contd.						

	(V1)	The	term mitoche	ondri	on was coined by							
			Porter		Gorter and Gre	A Commission of the Commission	3,	De	scribe the Ult	rastructure and functions	of mitochondria.	
		(c)	Benda	(d)	Camillo Golgi					OR		
	(vii)	(vii) Gametogenesis occurs in						Describe the ultrastructure and functions of Golgi complex.				
		(a)	bladder	(b)	blood						12	
		(c)	gonads	(d)	none of these		4.	Exp	plain the follo	owing:		
	(viii)	Duri	ng sta	ge of	mitosis, two nucl	lei can		(g)	Functions of	of nucleus	A Marianta	
		be seen in a single cell.						(h)	(h) Structure of Lampbrush chromosome			
		(a)	Metaphase	(b)	Prophase			(i)	Centromere			
			Telophase	(d)	Anaphase	2				OR		
(c) Ans	wer in	one sentenc	e:				(j)	Nucleolus	90		
	(ix)		is spermator		sis ?			(k)		funical chromasa (D		
	(x)		is cleavage	?				(L)		typical chromosome (D	area America	
	(xi)		is sperm?		annu a				100	Polytene chromosome.	12	
	(xii)	What	is the main f	functi	ion of nucleolus?	? 4	5.	Des	cribe the pro	cess of mitosis and its	ignificance.	
. E	xplain th											
(a) Func	tions	of Plasma Me	embra	ane					OR		
(b	(b) Types of Endoplasmic reticulum							Des	cribe the mec	hanism of fertilization.	12	
(c	(c) General organization of prokaryote cell.						6,	Des	cribe the follo	owing:		
			OR			•		(m)	Yolk Sac			
(d	(d) Functions of Endoplasmic reticulum							(n)	Blastulation	in Frog		
(e	e) Fluid mosaic model of plasma membrane							(o)	Gastrulation	in chick		
(f)			anization of			12		, ,		OR		
DC 4	0700									OK		
BS-4	6/88		2		C	ontd.	UBS	4878	88	3	Contd.	