	(n)	Cleavage in chick	4		4		AD 420
	(o)	Amnion	4	,			AP-430
		OR			1	B.Sc	(Part-I) Semester-II Examination
	(p)	Yolk sac	4			2.00	2S: ZOOLOGY
	(q)	Fate map of frog (Diagram only)	4		*	74	
	(r)	Cleavage in Amphioxus	4			(	Cell & Developmental Biology)
7.	Atte	mpt the following:		T.	ime : Tl	hree l	Hours] [Maximum Marks : 80
	(s)	Chorio-allantoic placenta	4	N	lote :-	(1)	ALL questions are compulsory.
	(t)	Regeneration in invertebrates	4			(2)	Question No. 1 carries 8 marks and remaining
	(u)	Sources of stem cells	4			(3)	SIX questions carries 12 marks each.
		OR		1,	. (a)	Fill	Illustrate your answer with suitable diagram. in the blanks:
-	(v)	Types of parthenogenesis	<b>4</b> .			(i)	Primary constriction on the chromosome is called
i	(w)	Functions of placenta	4				
. 1	(x)	Regeneration in vertebrates	4			(ii)	Mitosis takes place in the cells of the body.
						(iii)	consists of an interconnected system of membrane bound channels in the cytoplasm.
			4		4	(iv)	At the anterior extremity of the sperm is special structure called 2
			b		(b)	Cho	ose the correct alternative :
							Chromosomes are found in .
							(a) Lysosome (b) Endoplasmic reticulum
							(c) Nucleus (d) All of the above
WO-	-4240	4~	2150	:UN	VO-4240	00	1 (Contd.)

	(ii)	Cleavage in chick	3.	Write an account of:	
	(11)	(a) Holoblastic (b) Meroblastic		(a) Structure of Golgi complex	4
		(c) Ablastic (d) Diploblastic		(b) Functions of Ribosomes	4
	(iii)			(c) Functions of Mitochondria	4
	(111)	(a) Testis (b) Ovary		OR	
		(c) Somatic cells (d) Oviduct		(d) Functions of Golgi complex	4
	(iv)	) Balbiani rings are found in		(e) Structure of Mitochondria	4
	(IV)	(a) Lampbrush chromosome		(f) Structure of Lysome	4
		(b) Polytene chromosome	4.	. Describe ultrastructure and functions of nuleolus.	12
		(c) Lysosome		OR	
		(d) None of the above 2	- '	Describe the structure of chromosome.	12
	(c) A1	nswer in ONE sentence:	5.	6. Attempt the following:-	
	(i)	C. at a CAll-string		(g) Significance of meiosis	4
	(i) (ii			(h) Prophase in mitosis	4
	(ii	,		(i) Stages of spermatogenesis	4
	`	v) Which type of cell divison occurs during		OR	
	(1	gametogenesis?		(j) Anaphase	4
2.	Descri	be the functions of plasma membrane. 12		(k) Types of fertilization	4
		OR		(I) Aerosome reaction	4
	Descri	ibe the structure and functions of Endoplasmic	6.	6. Describe the following:	
	reticul	um. 12		(m) Formation of coelom in Amphioxus (Diagram o	only) 4
UV	VO42400	2	U	UWO-42400 3 (Co	ontd.)