19P.	2215	(Page: 1)	Name
171 .	313	(rage. 1)	Reg. No
,	THIRD SEMESTER M.Sc. DE	GREE EXAMINA	_
		(CBCSS-PG)	,
C	CC19P ZO3 C08 - DEVELOPM		Y AND ENDOCRINOLOGY
	(2010	(Zoology) Admission Regula	r)
Time:	: Three Hours	Admission Regula	Maximum: 30 Weightage
I. Ansv	swer any <i>four</i> questions.		
1.	1. Comment on cellular interactions in organogenesis.		
2.	. Explain polyphenism.		
3.	. Write on environmental disruptions of normal development.		
4.	Describe homeotic selector gene	es.	
5.	What are the physiological action	ons of androgens?	
6.	Discuss the role of glucocortico	oids.	
7.	Comment on eicosanoids.		
			$(4 \times 2 = 8 \text{ Weightage})$
II. Ans	nswer any <i>four</i> questions.		
8.	Explain hormonal control of am	nphibian metamorph	osis.
9.	Describe the causes of aging.		
10). Explain the anterior posterior pa	atterning in <i>Drosoph</i>	hila.
11.	1. Discuss the histological process	ses during regenerat	ion.
12	2. Discuss second messenger horn	none action.	
13.	3. Describe the anatomy and funct	tions of parathyroid	gland.
14.	4. Explain the synthesis and chem	istry of thyroid horn	nones.
			$(4 \times 3 = 12 \text{ Weightage})$
III. An	nswer any <i>two</i> questions.		
15	5. Discuss in detail gene expression	on during developme	ent.
16	6. Describe the hormonal and mol	ecular basis of insec	et metamorphosis.
17	Write an assay on the machenis	m of fartilization	

- 17. Write an essay on the mechanism of fertilization.
- 18. Explain the general mechanism of hormone action.

 $(2 \times 5 = 10 \text{ Weightage})$