•					•
This que	estion paper co	ontains 3 printed pag	ges]	•	
		•	Roll No.		
S. No. of	Question Pape	er : 2080	L.		
Unique P	aper Code	: 32231302		GC-3	
Name of	the Paper	: Physiology: Co	ntrolling and Coor	dinating System	
Name of	the Course	: B.Sc. (Hons) Z	oology. CBCS		
Semester		: III			
Duration	: Three Hours	3		Maximu	m Marks: 75
(Wi	rite yo <mark>ur Roll</mark>	l No. on the top in	nmediately on rece	cipt of this question	paper.)
		Attempt fi	ive questions in all	•	
		. Question ?	No. 1 is compulsor	ry.	
1. (a)	Define:				4.
	(i) Oocyte	e maturation			
	(ii) Trigge	er Zone			
	(iii) Perimy	/sium			
	(iv) Positiv	ve Feedback	·		
(b)	Distinguish	between:	•		5×2=10
	(i) Comp	act and Spongy Bo	one.		٠.
	(ii) Latent	t Period and Refract	tory Period.		
	(iii) Menar	rche and Menopause	e		
	(iv) Calcito	onin and Calsequestr	in		
	(v) Ionotro	opic and Metabotro	pic Receptors		P.T.O.

,		(2)	2080	
(c)	Ехр	and the following:	3	
	<i>(i)</i>	ENS	,	
	(ii)	ECF		
	(iii)	RAAS		
	(iv)	RMP		
	(v)	IGF		
	(vi)	ABP.		
(d)	Ехр	lain the location and function:	4	
`	<i>(i)</i>	Interneuron		
•	(ii)	Zona fasciculata		
	(iii)	Myoglobin		
(e)	(iv) Fill	Macula lutea. in the blanks:	4	
	<i>(i)</i>	Thyroxine is transported in plasma by		•
	(ii)	Adrenal medulla is an extension of nervous system.		
	(iii)	Delta cells of pancreas secrete	•	
•	(iv)	is the alternative energy rich phosphate compound in muscle.	skeletal	
	(v)	The neuronal cell bodies contain free ribosomes and clusters of rE	R known	
		as		
	(vi)	Theca interna cells produce which are converted into by granulosa cells.	•••••••••••••••••••••••••••••••••••••••	
	(vii)	is the structural and functional unit of a myofibril.		

		(3)	2080
	(/)	Give reasons/physiological singnificance of (any two):	2
		(i) Rigor mortis.	
	,	(ii) Posterior pituitary is not a true endocrine gland.	
		(iii) Height does not increase after a certain age.	
2.	(a)	Explain the mechanism of transduction of sound waves into electrical signals whelp of a well labelled diagram of Organ of Corti.	vith the
	(b)	What are the different types of epithielia ?	5
3	(a)	Give an account of the hormones secreted by the anterior pituitary.	9
	(b)	With the help of a flow chart explain dark current.	3
4	(a)	Where and how are graded and action potentials generated in a neuron ?	8
	(b)	Why does the impulse travel faster in a myelinated fiber ?	4
5	(a)	Describe the process of Spermatogenesis.	.6
	(b)	Give an account of the hormonal regulation of male reproduction.	6
6	(a)	Describe the various types of muscle proteins.	6
	(b)	How do these proteins help in maintaining the muscle structure and function	n ? 6
7.	Wri	te short notes on any three of the following:	×4=12
	(a)	Neuromuscular junction	
	(b)	Hormone interactions	
	(c)	Types of cartilage	
	(d)	Ovarian events in menstrual cycle	