This quest	ion paper co	ontains 4 printed	pages]	
		Your Roll	No. :	
1954				
		B.Sc. (Prog.)/II	I E	•
	BIO-201 —	BIOLOGY OF ANII	MALS : FORM,	. *
	STRU	CTURE AND FU	INCTION	
Time: 3 F	lours		Maximum Mai	rks : 75
Write your	Roll No. on the	e top immediately on	receipt of this questio	n paper.)
	Ans	wer five questions	in all:	
•	Q	No. 1 is compul	lsory.	•
l. (a)	Define the	following terms :		
	(i) Polymo	orphism		
	(ii) Pseudo	ocoelom		
	(iii) Action	Potential		
	(iv) Neurog	glia		
	(v) Metag	enesis.		5

(b)	Classify the following (non-chordates upto class	and
	chordates upto order) :	
	(i) Starfish	
	(ii) Portuguese Man of war	
	(iii) Toad •	
	(iv) Pigeon.	4
(c)	Expand the following:	
	(/) ACTH	
	(ii) MSH	
	(iii) LTH	
	(iv) FSH.	4
(d)	Differentiate between the following:	
	(i) Polyp and Medusa.	
	(ii) Diabetes mellitus and Diabetes insipidus.	
	(iii) Vital capacity and Total lung capacity.	
	(iv) Trichocyst and Nematocyst.	
	(v) Polyurea and Polydipsia.	10

(e)	Give the exact location of :	
	(i) Sebaceous glands	
	(ii) Flame cells	
	(iii) Statocyst	
	(iv) Contractile vacuole.	4
(a) .	Give an account of water vascular system	in
:	Echinoderms.	7
(b)	Discuss the formation of image by compound eye	in
	different intensities of light.	5
Give	an account of flight adaptations in birds.	12
Give	the structure and function of hypophysis. Explain wh	nat
will h	nappen if there is an excessive (hyper) or decreased (hyp	00)
secret	tion of growth hormone by the pituitary gland.	12
Desci	ribe the mechanism of wine formation in mammali	an
kidne	у.	12

2.

3.

5.

- 6. Describe oxygen dissociation curve and the factors which (a) influence it. 8 (b) Explain chloride shift. 7. Write short notes on any three of the following: (i) Blood Homeostasis
 - Parasitic adaptations in Platyhelminthes
 - (iii) Metamerism in Annelids

(ii)

(iv) Conjugation in Paramecium. 4,4,4