Roll No. Total Pages : 03

GSM/M-21

1630

ZOOLOGY

Paper II

Mammalian Physiology

Time : Three Hours] [Maximum Marks : 40

Note: Attempt *Five* questions in all. Q. No. 1 is compulsory. Attempt *two* questions each from Section A and Section B. Support your answer with neat and labelled diagram(s) wherever necessary.

(Compulsory Question)

- 1. Explain the following in about 20 words each:
 - (a) Haemopoiesis
 - (b) Anticoagulants
 - (c) Cardiac Output
 - (d) Chloride Shift
 - (e) Osmoregulation
 - (f) Uricotelism
 - (g) Medulated Nerve Fibre
 - (h) Neurotransmitters
 - (i) Hormone
 - (j) Parturition. $1\frac{1}{2} \times 10 = 15$

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1

Section A

2.	What	t is Heart Beat ? Describe origin and conductio	n of
	heart	beat.	61/4
3.	(a)	Define tidal volume, residual volume and	vital
		capacity of lungs. Give their average value in no	rmal
		human adult.	31/4
	(b)	Explain exchange of respiratory gases at the	level
		of lungs and at tissue level.	3
4.	Desc	ribe the composition and functions of blood.	61/4
5.	Write	e short notes on the following:	
	(a)	Structure of nephron	31/4
	(b)	Ornithine cycle.	3
		Section B	
6.	What	t is Synapse ? Explain conduction of nerve imp	oulse
	throu	igh a synapse.	61/4
7.	Nam	e the various hormones and their functions secr	eted
	by P	ituitary Gland.	61/4
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8.	Wha	t is Spermatogenesis? Describe the mechanis	sm of		
	speri	matogenesis.	61/4		
9.	Write short notes on the following:				
	(a)	Saltatory conduction	31/4		
	(b)	Mechanism of action of steroid hormones.	3		