This quest	tion pap	per contains 3 printed pages]	
		Roll No.	
S. No. of C	uestior	n Paper : 2417	
Unique Paper Code		de : 2232701	F-4
Name of th	nė Pape	r : Human Physiology	
Name of th	ne Cour	se : B.Sc. (Hons.): Allied Course	
Semester		: IV	
Duration:	3 Hour	rs ·	Maximum Marks: 75
	(Write	your Roll No. on the top immediately on rece	ipt of this question paper.)
		Attempt Five questions in a	11.
	Q	uestion No. 1 is compulsory. Draw diagram	s wherever required.
1. (a)	Defin	e the following terms:	. 4
	(i)	Peristalsis	
	(ii)	Depolarization	
	(iii)	Pulmonary Ventilation	
	(iv)	Ultrafiltration.	
(b)·	Differ	rentiate between the following:	10
	(i)	External and internal respiration	
	(ii)	Meissner's and myenteric plexus	
	(iii)	Isotropic and anisotropic band	
	(iv)	Spermatogenesis and spermeiogenesis	
	(v)	Adenohypophysis and neurohypophysis.	

P.T.O.

(c)	Exp	spand the following:		
	(i)	GnRH		
	(ii)	PNS		
	(iii)	ADH		
	(iv)	ССК.		
(d)	Give	e the location and function of the following:	6	
	(i)	Semilunar valve		
	(ii)	Sarcoplasmic reticulum		
	(iii)	Leydig cells.		
(e)	Fill	in the blanks :		
	(i)	serves as the normal pace maker of the heart in humans.	3	
	(ii)	HCl is secreted bycells.		
	(iii)	is the regulatory protein of the sarcomere.		
Exp	lain in	detail the digestion and absorption of lipids in the human digestive system.	12	
Disc	cuss th	e major changes in the ovary, uterus and their hormonal regulation during differ	rent	
phas	ses of	menstrual cycle.	12	
(a)	Give	an account of hormones of anterior pituitary and write their functions.	9	
(b)	Brief	ly discuss the negative feedback mechanism in regulation of hormone acception	•	

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	(3 .)	2417
5.	Discuss different phases of cardiac cycle and relate them with the ECG.	12
6.	(a) Draw a neat and well labelled diagram of nephron.	3
	(b) Discuss the mechanism of urine formation.	9
7.	Write short notes on any three of the following:	3×4=12
	(a) Neuromuscular junction	
	(b) Carbon dioxide transport in the blood	
	(c) Role of pancreatic acini	
	(d) Structure of neuron	

(e) Propagation of nerve impulses through myelinated nerves.