rms question	paper contains 4 printed pages	5 J					
		Roll No.					
S. No. of Que	stion Paper : 995						
Unique Paper	Code : 223401			E			
Name of the P	aper : Animal Physiolog	: Animal Physiology and Functional Histology-II (ZOHT-405)					
Name of the C	Course : B.Sc. (Hons.) Zo	ology					
Semester	: IV						
Duration: 3 H	ours	•		Maximum Marks: 75			
(Wi	rite your Roll No. on the top imn	nediately on rece	ipt of this que	stion paper.)			
•	Answer Five qu	estions in all inc	luding				
•	Question No. 1	which is compu	ılsory.				
1. (a) De	efine the following:			. 5			
. (i)	Physiological dead space						
(ii)) Auscultation	· ·					
. (iii) Cardiac reserve						
(iv) Hemostasis						
(v)	Haldane effect.		•	•			
(<i>b</i>) Fi	ll in the blanks :			5			
(i)	In the small intestine the dig	gested fat is abs	orbed in	. ·			
(ii)			4				
	•						

P.T.O.

(iii) Discharge of urine from the	ne urinary bl	adder is call	ed		775
(iv) Plasma minus its clotting p				•	
(v) Oxygen in blood is carried					•
(c) State whether the following state				,	
(i) Foetal Hb shifts oxygen dis				•	. 5
(ii) The soft palate, uvula and epig					
the respiratory passages.	,	· · · ·	ous and h	quids from en	tering
(iii) The pleural membrane is a s	serous memb	rane.			
(iv) The visceral layer of the ser			lium) is I	ooth a now -	C.1
perical drum and a part of the	e heartwall.	•	,		t the
(v) A long refractory period prev	ents tetanus	in cardiac n	nuscle fib	ers.	
(d) Expand the following:	•	• .			4
(i) GFR				• .	•
(ii) SV	, `				
(iii) MMC					
(iv) PCO ₂		.•		. '	
(v) ERV			,	·	
(vi) Va					,
(vii) AHF					
(viii) PTC.					٠.
		•		•	

	(e) Indicate the exact location is	995
٠	(e) Indicate the exact location and function of the f	following:
	(i) Paneth cells	
	(ii) Dust cells	
	(iii) Pyloric Sphincter	
	(iv) Juxtaglomerular cells.	
. 2.	(a) Describe the three phases of digestion.	
3 ((b) Discuss in detail the mechanical and chemical dig	estion in the stomach. 6+6
(4	 (a) Describe in detail the respiratory centers and the man. (b) Describe the histology and function of the respiratory 	OFV membrons
4. (Describe how the renal tubule and collecting duct urine. 	
(b	Trace the path of blood flow through the kidneys.	9+3
5. (a)	Define cardiac output. Describe the factors that output.	affect the regulation of cardiac
(b)	Draw a labelled diagram of cardiac cycle showing a heartbeat.	ll the events associated with one
	nour tocal.	6+6

- 6. (a) List all the blood coagulation factors and diagrammatically show the intrinsic pathway of blood coagulation.
 - (b) Describe the structure, function and origin of platelets.

9+3

7. Write short notes on any three of the following:

4,4,4

- (a) Role of Gastrointestinal hormones
- (b) Blood pressure
- (c) Oxygen dissociation curve
- (d) Histology and functions of the liver
- (e) Carbon monoxide poisoning.

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