Q.P. Code: 21759

		(3 Hours)	[Total Marks : 70
	N.B. :	1. All questions are compulsory.	
		2. Figures to the right indicate full marks.	- 20
		3. Draw neat labelled diagrams wherever necessary.	A
		4 - 0 11 - 1 - 2	76,
1. A	200	the following:	12
	(a)	(i) Define: "Pre load" and "After load".	072,
		(ii) Differentiate between Primary and Secondary h	The state of the s
		(iii) State the functions of Juxtaglomerular apparatus	
		(iv) Enumerate the different types of Kidney stones.	()
		(v) Give the general structure and composition of to	
		(vi) What are the clinical conditions which may lead	to jaundice?
	(b)		4i G1i 3
	(b)	(i) is reduced in Conges failure.	tive Cardiac
			atomoch ?
		 (ii) What is the secretion from the Chief cells of the (iii) Renal tubules secrete H⁺ into the urine and reabsor 	
		so that it is not lost in the urine.	10
		to that it is not lost in the drine.	
2. (a)	Answ	ver any two:	8
3. 5.	(i)	Draw a neat and labelled diagram of testis showi	ng stages of
		spermatogenesis	
¥	(ii)	Describe the process of Oogenesis	
	(iii)	State the functions of Sertoli cells.	
71.		A P	2
(b)		ver any one :	3
		Write a note on Male Infertility	
	(ii)	State the physiological role of Luteinizing hormone (LH	and Follicle
		Stimulating hormone (FSH)	
3 (2)	Angu	rerany two:	8
J. (a)		Draw a neat and labelled diagram showing internal struc	
	(ii)S	Discuss the anatomical features of capillary. Explain th	e mechanism
	77	of capillary exchange.	
	(iii)	Draw normal ECG. Explain the significance of segmen	nts and peaks
777		and its diagnostic use.	* ·
P			

(b)	Ansv	ver any one:	3	
	(i)	(i) Define Arrythmia. Discuss in brief the causes of Arrythmia.		
	(ii)	What is the influence of sympathetic and parasympathetic	8	
		innervations on the heart rate.	OF	
			IT,	
4. (a)	Answer any two:			
	(i)	Draw a neat labelled diagram of section of Kidney. Discuss the		
	7227	functions of kidneys.		
	(ii)	Discuss the role and physiological significance of renin - angiotensin		
×	ZIIIN	- aldosterone system		
	(iii)	Explain the phases of gastric secretion in detail.		
(1.)				
(b)	(b) Answer any one:		3	
	(i)	Write a note on Urinary Tract Infections.		
	(ii)	State the etiology, signs and symptoms of Clomerulonephritis.		
F (-)	A	· Str	0	
5. (a)		ver any two:	8	
	(i)	Draw a neat labelled diagram showing histology of small intestine.		
	(ii)	Explain in detail the process of digestion and absorption of fats along		
	(;;;)	the GI tract.		
	(iii)	Give a detailed account on Poptic Ulcer.		
(b)	Amarr	A P	2	
(b)		ver any one:	3	
	(i)	Write a note on Proton Pump.		
	(ii)	Define cholecysticis and cholelithiasis.		
6 (2)	Δηςυ	er any two	0	
0. (a)	Answer any two: (i) What is the normal human Blood Pressure. Explain the hormonal		8	
	(1)	What is the normal human Blood Pressure. Explain the hormonal regulation of Blood Pressure.		
æ	(ii)	What's Angina Pectoris. State the risk factors, signs and symptoms		
	(11)	of Angina Pectoris. State the risk factors, signs and symptoms		
	(iii)	Provide the physiological role of the digestive enzymes:		
	(111)	(a) Pepsin (b) Amylase		
	17:12	(c) Lypase (d) Trypsin		
(b) h	Answ	er any one :	2	
1st	(i)	Discuss the functioning of Atrioventricular valves.	3	
My,	(ii)	What does the heart sounds "lubb" and "dupp" indicate?		
1	,	aupp mount .		