## Paper / Subject Code: 65105 / Anatomy, Physiology & Pathophysiology -III

## Q.P. Code :07265

		[Time: 3 Hours] [Marks:70]		
0.1.4)	N.B:	<ol> <li>Figures to the right indicates full marks</li> <li>3.Draw neat and labeled diagram wherever necessary</li> </ol>	12	
Q.1 A)	Answer the following			
	i) Define	'pre load and After load'		
	ii) What is	s myocardium composed of and what is its function?		
	iii) Name	the substances reabsorbed and secreted from loop of henle?		
	iv) Differe	entiate between juxta medullary and cortical nephron		
	v) Villi ai	nd microvilli help in absorption in small intestine. Explain.		
	vi) What a	are the causes of peptic ulcer?		
B)	Fill in the Blanks			
	ii	The aortic and pulmonary valves are known as the clearance is an indicator of renal function Hepatopancreatic ampulla releases both and pancreatic juice	3	
Q.2 A)	Answer ANY TWO of the following		8	
	ii. V	Draw a neat and labeled diagram of section of uterus Write a note on process of spermatogenesis Enumerate the role of oestrogen and progesterone		
B)	Answer ANY ONE of the following		3	
		Write a note on female infertility What is the influence of pituitary hormones on the ovarian changes		
Q.3 A)	Answer ANY TWO of the following			
	ii. [ iii. [	Draw a neat and labeled diagram showing conduction pathway of heart Discuss the anatomical features of capillary. Explain the mechanism of capillary exchange Draw a normal ECG. Explain the significance of segments and peaks. What is the implication c Q-T prolongation?	of	
B)	Answer ANY ONE of the following			
		Define Arrhythmia. What are its causes? Discuss the anatomical structure of artery with the help of neat and labeled diagram		

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Q.4 A)	Answer ANY TWO of the following			
	i. ii. iii.	Draw neat and labeled diagram of section of kidney. Discuss the functions of kidneys. Discuss the absorption and secretion in the proximal convoluted tubules. Explain the phases of gastric secretion in detail	3	
B)	Answer ANY ONE of the following			
	i. ii.	Write a note on Urinary tract infection Explain in detail the causes, symptoms and treatment of chronic renal failure		
Q.5 A)	Answ	er ANY TWO of the following	8	
	i. ii. iii.	Draw neat and labeled diagram of section of small intestine. Discuss the absorption and digestion of protein in small intestine Describe the process of digestion and absorption of fats across the GIT Enumerate the function of liver	of	
B)	Answer ANY ONE of the following		3	
	i. ii.	Write a note on Deglutition Define cholecystitis and cholelithiasis		
Q.6 A)	Answer ANY TWO of the following		8	
	i. ii. iii.	State the pathophysiology of Hypertension Write a note on Baro receptor and Chemo receptor reflex. Describe the mechanism of HCl secretion and its regulation in the parietal cells of the stomach		
B)	Answer ANY ONE of the following			
	i. ii.	What is total peripheral resistance? What are the factors affecting it? Differentiate between stable and unstable angina		