excess blood because of their importance in maintaining homeostasis.

_ produced by parietal cells forms a complex with Vitamin B12,

Q. 1 (B) Fill in the blanks.

which is necessary for its absorption in ileum.

2. Under normal resting conditions,

(16 marks)

3.	The products of lipid digestion are coated with proteins and transported into lympotenies called	ohatic
4.	Action potentials has two main phases	٠
5.	Each day within the mucosa of the gastric walls in the GI tract secrete a total of a of digestive juice.	bout .
6.	A period of time after an action potential begins during which an excitable cell ca generate another action potential in response to a normal threshold stimulus is cal	n not led the
	As food reaches the pylorus, each mixing wave periodically forces about 3 ml of o into the duodenum, a phenomenon known as	
8.	Gastric emptying is slowest after a meal because it stimulates cholecystokinin, which slows stomach emptying.	
Q. 1 (B	B) Mark the following statements as TRUE of FALSE.	
i.	With increase in age, the blood supply to the digestive tract degrades	
·	conduction of nerve impulses.	-
3.	The pressure generated by left ventricular contraction is the driving force for the fluthrough the entire systemic as well as pulmonary circulation.	••
6.	The length of the GI tract is about 5-7 meters in a living person and 7-9 meters in The histamine receptors on the parietal cells are called H2 receptors, and are differ H1 receptors involved in allergic reactions	1-
7. C 8. U	Glomerular filtrate has the same ratio of water and solute particles as blood. Under normal physiological conditions, hematocrit and blood viscosity do not vary within an individual.	considerably
		(14 marks)
2.]	Human body is constantly challenged with altering external environmental condition the cells and tissues in the various systems maintain internal order to function effice. Through which type of blood capillaries and how the exchange of blood constituent place between blood and interstitial fluid?	• 41.0
3. N 4. V	Name major secretary cells in the stomach along with their secretion. What is the significance of high and low WBC counts? Do WBCs live longer in he ndividuals or infected individuals?	althy
5. W	Which pathway of blood coagulation occurs faster?	
7. D	larrate the functions of liver.	•
8. W	offerentiate between phagocytosis by neutrophils and phagocytosis by macrophage what is the role of ADH in urine formation?	S.
9. W	Thich cells form myelin sheath on axons? How?	
Q.3 Desc	cribe the functions, life cycle and regulation of formation red blood cells. OR	(08)
Q.3 Wha	at is mean arterial pressure (MAP)? Discuss how cardiac output and total peripheral of MAP.	l resistance (08)
Q.4 Desc	ribe the mechanical and chemical digestion in the stomach.	(08)

OR

Q.4 Describe the major hormones that regulate digestive activities.	(80)		
Q.5 What is countercurrent multiplication? How does a kidney produce concentrated urine in s			
OR	(08)		
Q.5 Describe the routes and mechanisms of tubular reabsorption and secretion. Which substance reabsorbed most and which substance is not reabsorbed at all?	ces are (08)		
Q. 6 What are the roles of FSH, LH, oestrogen and progesteron in the female reproductive system?			
OR	(08)		
Q.6 Explain the propagation of action potential (AP).	(08)		