S.S.R. DEGREE COLLEGE, (AUTONOMOUS) NIZAMABAD (C.C:5029)

I SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS DEPARTMENT OF MEDICAL LAB TECHNOLOGY (MLT) QUESTION BANK

SUB: HUMAN PHYSIOLOGY PAPER-II

	Itiple Choice Qu				,	_	
1	•	present in saliva that o	_		(В)
_	a) Pepsin	b) Ptyalin (Salivary a		d) Trypsin		_	
2	. The rhythmi	The rhythmic movement of the esophagus that pushes food towards the stor					
					(С)
	a) Digestion	b) Absorption	c) Peristalsis	d) Masticat	ion		
3		lice mainly contains:			(Α)
	a) Pepsin, HCl, Mucus		b) Bile salts, Lipase, Amylase				
		c) Trypsin, Chymotrypsin, Bicarbonates d) Ptyalin, Lipase, Water					
4	•	The enzyme that initiates protein digestion in the stomach is:				В)
	a) Lipase	b) Pepsin	c) Ptyalin	d) Trypsin			
5			cretion of gastric juice?		(В)
	a) Secretin	b) Gastrin	c) Cholecystokinin	d) Insulin			
6	The small intestine receives bile through which structure?			(В)	
	a) Pyloric sphincter b) Common bile duct						
	c) Pancreatic	duct	d) Duodenum				
7	. Which enzym	Which enzyme digests fats in the small intestine?			(В)
	a) Amylase	b) Lipase	c) Maltase	d) Pepsin			
8	. The main site	The main site of absorption of nutrients is:				В)
	a) Stomach	b) Small intestine	c) Large intestine	d) Rectum			
9	. Villi are pres	ent in:			(С)
	a) Mouth	b) Stomach	c) Small intestine	d) Large intestine			
1	0. The hormone). The hormone secretin is released in response to:)
	a) Acidic chyr	a) Acidic chyme in the duodenum b) Presence of proteins in the stomach					
	c) High blood	c) High blood sugar levels		d) Dehydration			
1	1. The excretory system mainly removes:					С)
	a) Oxygen		b) Carbon dioxide				
	c) Nitrogenou	us wastes	d) Enzymes				
1	2. The function	al unit of the kidney is	S:		(Α)
	a) Nephron	b) Glomerulus	c) Bowman's capsule	e d) Ureter			

13.	The process of urine formation beging		(C)	
	a) Tubular secretion	b) Tubular reabsorpti	on			
	c) Glomerular filtration	d) Micturition				
14.	The hormone ADH acts mainly on:				С)
	a) Stomach	b) Liver				
	c) Collecting ducts of kidney	d) Small intestine				
15.	Aldosterone regulates:			(В)
	a) Calcium absorption	b) Sodium and water balance				
	c) Protein digestion	d) Urine color				
16.	Normal urine is mostly composed of:)
	a) Glucose and proteins b) Urea and salts dissolved in water					
	c) Fats and bile salts d) Enzy	ymes and hormones				
17.	The average daily urine output in a h	nealthy adult is:		(С)
	a) 200–300 ml b) 500–700 m	l c) 1000–1500 ml	d) 3000 ml			
18.	. The condition of glucose in urine is called:				С)
	a) Hematuria b) Proteinuria c) Glycosuria d) Ketouria					
19.	. The cystourethrogram is used to study:)
	a) Heart b) Lungs					
	c) Urinary bladder and urethra	d) Kidney filtration				
20.	Which hormone decreases urine output by increasing water reabsorption)
	a) Aldosterone b) ADH	c) PTH	d) Gastrin			
21.	Which structure of nephron collects the filtrate first?)
	a) Proximal convoluted tubule b) Bowman's capsule					
	c) Loop of Henle d) Distal convoluted tubule					
22.	The main nitrogenous waste in human urine is:				С)
	a) Uric acid b) Creatinine	c) Urea	d) Ammonia			
23.	. Which renal test is commonly used to evaluate kidney function?)
	a) Spirometry b) ECG	c) Blood urea test	d) EEG			
24.	. The action of PTH on kidney leads to:)
	a) Increased calcium reabsorption	excretion				
	c) Decreased urea formation d) Increased protein synthesis					
25.	Which part of nephron is mainly responsible for concentration of urine?)
	a) Proximal convoluted tubule	b) Loop of Henle				
	c) Bowman's capsule	d) Collecting duct				

II. FILL IN THE BLANKS.

- 1. The enzyme present in saliva is **Ptyalin (Salivary amylase).**
- 2. The movement of food in the esophagus is called **Peristalsis**.
- 3. The hormone that stimulates secretion of gastric juice is **Gastrin**.
- 4. The partially digested food in the stomach is called **Chyme**.

- 5. The pancreas secretes Amylase, Lipase and Trypsin.
- 6. The liver secretes **Bile**, which helps in digestion of fats.
- 7. The finger-like projections in the small intestine are called **Villi**.
- 8. The valve between stomach and duodenum is Pyloric sphincter.
- 9. Protein digestion in the stomach is initiated by **Pepsin**.
- 10. The end product of carbohydrate digestion is **Glucose**.
- 11. The functional unit of the kidney is **Nephron**.
- 12. The first step of urine formation is **Glomerular filtration**.
- 13. The hormone that increases water reabsorption in kidneys is **ADH**.
- 14. Aldosterone mainly acts on the **Distal convoluted tubules** of nephron.
- 15. The normal pH of urine is around 6 (slightly acidic).
- 16. Presence of blood in urine is called **Hematuria**.
- 17. The daily average urine output in adults is about 1000-1500 ml.
- 18. The hormone secreted by the posterior pituitary that controls urine volume is **ADH**.
- 19. The abnormal presence of protein in urine is called **Proteinuria**.
- 20. The main nitrogenous waste excreted in urine is **Urea.**
- 21. The hormone PTH helps in reabsorption of **Calcium** in kidney tubules.
- 22. The process of expelling urine from the body is called **Micturition**.
- 23. The test that records urinary bladder and urethra is **Cystourethrogram.**
- 24. The structure that collects the filtrate from glomerulus is **Bowman's capsule**.
- 25. The liquid waste product of excretion is **Urine**.

III. Descriptive Questions

- 1. Explain the physiology of digestion in the mouth, pharynx and esophagus.
- 2. Describe the composition of gastric juice and explain the process of protein digestion in the stomach.
- 3. Explain the activities occurring in the Small Intestine
- 4. Explain the process of urine formation with a neat labeled diagram of nephron.
- 5. Describe the properties and composition of normal urine.