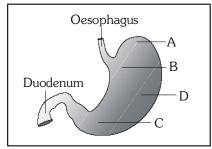
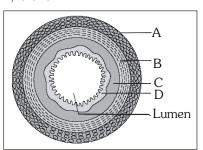
DIGESTION AND ABSORPTION

1.



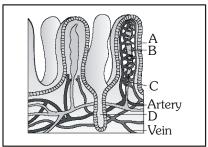
Anatomical regions of human stomach are :-

- (1) A-Fundus; B-Pyloric; C-Cardia; D-Body
- (2) A-Cardia; B-Fundus; C-Pyloric; D-Body
- (3) A-Fundus; B-Cardia; C-Pyloric; D-Body
- (4) A-Pyloric; B-Fundus; C-Cardia; D-Body
- **2.** The wall of alimentary canal from stomach to rectum posses four layers. The sequence of these layers from outside to inside is:-
 - (1) Serosa \rightarrow Mucosa \rightarrow Submucosa \rightarrow Muscularis
 - (2) Mucularis \rightarrow Serosa \rightarrow Mucosa \rightarrow Submucosa
 - (3) Serosa \rightarrow Muscularis \rightarrow Mucosa \rightarrow Submucosa
 - (4) Serosa \rightarrow Muscularis \rightarrow Submucosa \rightarrow Mucosa
- **3.** The below diagram represents the TS of gut. Identify A, B, C and D:



- (1) A Serosa; B Muscularis; C Submucosa;
 - D Mucosa
- (2) A Muscularis; B Serosa; C Submucosa; D Mucosa
- (3) A Serosa; B Muscularis; C Mucosa; D Submucosa
- (4) A Serosa; B Submucosa; C Muscularis; D Mucosa
- **4.** Which of the following statement is false?
 - (1) Mucosal epithelium has goblet cells which secrete mucus for lubrication.
 - (2) Mucosa forms gastric glands in the stomach and crypts in between the bases of villi in intestine.
 - Cells lining the villi has brush border or microvilli.
 - (4) All the four basic layer in the wall of gut never show modification in different parts of the alimentary canal.

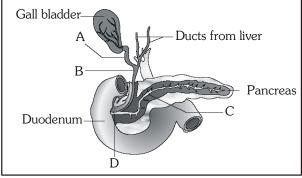
5. The below diagram represents a section of small intestinal mucosa showing villi. Identify A, B, C and D:-



- (1) A Villi, B Lacteal, C Capillaries, D Crypts
- (2) A Lacteal, B Villi, C Capillaries, D Crypts
- (3) A Villi, B Lacteal, C Crypts, D Capillaries
- (4) A Crypts, B Lacteal, C Capillaries, D Villi
- **6.** Find out the correct match :-

	Column-I		Column-II
Α	Hepatic lobule	I	Base of Villi
В	Crypts of leiberkuhn	II	Glisson's capsule
С	Sphincter of Oddi	III	Gall bladder
D	Cystic duct	IV	Hepato-pancreatic duct

- (1) A-II, B-I, C-IV, D-III (2) A-I, B-II, C-IV, D-III (3) A-I, B-II, C-III, D-IV (4) A-IV, B-III, C-II, D-I
- 7. The below diagram is a duct system of liver, gall bladder and pancreas. The names of ducts from A to D:-



- (1) A Cystic duct, B Bile duct, C Pancreatic duct, D Hepato-pancreatic duct.
- (2) A Bile duct, B Cystic duct, C Pancreatic duct,D Hepato-pancreatic duct.
- (3) A Cystic duct, B Bile duct, C Hepatopancreatic duct, D - Pancreatic duct.
- (4) A Cystic duct, B Pancreatic duct, C Bile duct, D Hepatio-pancreatic duct.

8. Optimum pH of saliva is :-

(1) 6.8

(2) 8.6

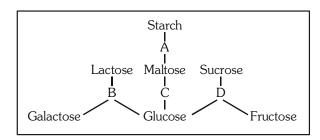
(3) 7

(4) 9.5

- **9.** About 30% starch is digestied in :-
 - (1) Oral cavity
- (2) Stomach
- (3) Small intestine
- (4) Colon
- **10.** Find out the correct matching between the cells of gastric gland and their respective secretory products:-

	Column-I		Column-II
Α	Mucus neck cells	I	HCl, Intrinsic factor
В	Peptic/Chief cells	II	Mucus
С	Parietal/Oxyntic cells	III	Pepsinogen

- (1) A-II, B-III, C-I
- (2) A-III, B-II, C-I
- (3) A-I, B-II, C-III
- (4) A-II, B-I, C-III
- **11.** Enterokinase is :-
 - (1) Pancreatic hormone
 - (2) Intestinal hormone
 - (3) Pancreatic enzyme
 - (4) Component of intestinal juice
- **12.** First step in digestion of fat in intestine is :-
 - (1) Emulsification
 - (2) Enzyme action
 - (3) Absorption by lacteals
 - (4) Storage in adipose tissue
- **13.** Identify enzymes A, B, C, and D in digestion of carbohydrates:-



- (1) A-Amylase, B-Invertase, C-Maltase, D-Lactase
- (2) A-Amylase, B-Lactase, C-Maltase, D-Invertase
- (3) A-Amylase, B-Maltase, C-Lactase, D-Invertase
- (4) A-Amylase, B-Maltase, C-Invertase, D-Lactase
- **14.** Find out the correct sequence of substrate, enzyme and product :-
 - (1) Small intestine: Proteins Pepsin Amino acids
 - (2) Stomach : Fats $\xrightarrow{\text{Lipase}}$ Micelles
 - (3) Duodenum: Triglycerides Trypsin Monoglycerides
 - (4) Small intestine : Starch $\xrightarrow{\alpha$ -Amylase \rightarrow Maltose

15. Match the columns and choose the correct option :-

	Column-I		Column-II
Α	Salivary amylase	I	Proteins
В	Bile Salts	II	Milk protein
С	Rennin	III	Starch
D	Pepsin	IV	Lipids

- (1) A-III, B-IV, C-II, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-IV, B-III, C-II, D-I
- (4) A-I, B-II, C-III, D-IV
- **16.** The secretion of the brush border cells along with secretions of goblet cells present in the mucosa of small intestine constitutes:-
 - (1) Chyme
 - (2) Chyle
 - (3) Succus entericus
 - (4) Gastric juice
- **17.** The juice having maltase, dipeptidase, lipase, nucleotidase, nucleosidase etc is called :-
 - (1) Pancreatic juice
 - (2) Gastric juice
 - (3) Intestinal juice / Succus entericus
 - (4) Bile
- **18.** Which of the following processes is aided by the bile salts?
 - (1) Nucleic acid $\xrightarrow{\text{Nuclease}}$ Nucleotides $\xrightarrow{\text{Nucleotidase}}$ Nucleosides $\xrightarrow{\text{Nucleositidase}}$ Sugar + bases
 - (2) Sucrose Sucrase Glucose + Fructose
 - (3) Fats $\xrightarrow{\text{Lipase}}$ Diglycerides $\xrightarrow{\text{Lipase}}$ Monoglycerides



- **19.** Which of the following statement is false?
 - (1) The break down of most of biomacromolecules occurs in duodenum.
 - (2) Simple substances (digested foods) are absorbed in the jejunum and ileum.
 - (3) Very significant digestive acitivity occurs in large intestine.
 - (4) Undigested and unabsorbed substances are passed into the large intestine.

- **20.** Which of the following is not the function of large intestine?
 - (1) Absorption of some water, minerals and certain drugs.
 - (2) Nutrient absorption
 - (3) Secretion of mucus to lubricate faeces
 - (4) Temporary storage of faeces in rectum
- **21.** In addition to neural control, hormones also influence the :-
 - (1) gastric secretions
 - (2) intestinal secretions
 - (3) muscular activities of different parts of alimentary canal
 - (4) All of these
- **22.** Which of the following statement is incorrect?
 - Absorption of simple sugar, alcohol, some water and medicines takes place in stomach.
 - II. Maximum water absorption occurs in small intestine.
 - III. Small intestine is the major site of digestion and absorption of food.
 - IV. Fatty acid and glycerol are absorbed by lacteals.
 - V. Nothing is absorbed in mouth and large intestine.
 - (1) I. IV and V
 - (2) V
 - (3) IV
- (4) II and III

- **23.** Which of the following statement is wrong about chylomicrons?
 - Chylomicrons are produced in the epithelial cells of small intestine.
 - II. It contains triglycerides, cholesterol and phospholipids.
 - III. It is carbohydrate coated.
 - IV. Chylomicrons released from the epithelial cell into lacteals.
 - (1) I and IV
- (2) II and III
- (3) I, II, III and IV
- (4) Only III
- **24.** Chylomicrons are concerned with :-
 - (1) digestion of fats
 - (2) absorption of proteins
 - (3) digestion of protein
 - (4) absorption of fats
- **25.** Which of the following statement is incorrect?
 - (1) Faecal accumulation in the rectum initiates a neural reflex causing an urge for its removal.
 - (2) Reflex action for vomiting is controlled by medulla.
 - (3) Irregular bowel movements causes constipation
 - (4) In diarrhoea the absorption of food get enhanced

	ANSWERS KEY																			
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	3	4	1	4	1	1	1	1	1	1	4	1	2	4	1	3	3	3	3	2
Que.	21	22	23	24	25															
Ans.	4	2	4	4	4															