# **EXERCISE**

## ANATOMY OF ALIMENTORY CANAL, DIGESTIVE GLANDS, HISTOLOGY OF ALIMENTARY CANAL

- 1. How many teeth in man grows twice in life:
  - (1) 32
- (2) 28
- (3) 20
- (4) 12
- 2. In human teeth, which help in cutting
  - (1) Canine
- (2) Incisor
- (3) Molar
- (4) Premolar
- 3. Molars and Premolars are modified for:
  - (1) Crushing
- (2) Tearing
- (3) Peristalsis
- (4) Cutting
- 4. Pulp cavity of teeth is lined by:
  - (1) Odontoblast
- (2) Chondroblast
- (3) Osteoblast
- (4) Amyloblast
- 5. The longitudinal mucosal folds of inner wall of stomach are called:
  - (1) Papilla of vater
- (2) Rugae

(3) Villi

- (4) Fissure
- Glisson's capsule is associated with: 6.
  - (1) liver

(2) pancreas

(3) lungs

- (4) kidnev
- 7. In mammals the teeth are
  - (a) of different types
  - (b) embedded in the cuplike socket in the jaw bones
  - (c) only two sets, present throughout life
  - The condition are referred as:
  - (1) heterodont, the codont, diphyodont
  - (2) the codont, heterodont, diphyodont
  - (3) diphyodont, the codont, heterodont
  - (4) heterodont, diphyodont, the codont
- 8. Find out the correct match:

#### Column I

#### Column II

- A. Hepatic lobule
- i. Sub mucosal glands
- B. Brunner's glands
- ii. Base of villi
- C. Crypts of lieberkuhn
- iii. Glisson's capsule
- D. Sphincter of Oddi
- iv. Gall bladder
- E. Cystic duct
- v. Hepatopancreatic duct

įν

i

iv

- vi. Serous glands
  - Α В
- D E
- (1)iii

C

iii

ii V vi

V

(2)V (3)

(4)

- iii

- įν
- i vi

vi

ii

- ii V
- ii
- i

- 9. Gall bladder is found:
  - (1) below right lobe of liver
  - (2) below left lobe of liver
  - (3) in between the two lobes of liver
  - (4) third lobe of liver
- 10. Bile can be prevented to release into the duodenum by :-
  - (1) pyloric valve
  - (2) sphincter of oddi
  - (3) cardiac sphincter
  - (4) sphincter of Boyden
- 11. It is a correct dental formula for the child falling under age group 5-6 years :-
  - (1) i = 2/2, c = 1/1, pm = 0/0, m = 2/2
  - (2) i = 2/2, c = 1/1, pm = 2/2, m = 3/3
  - (3) i = 1/1, c = 2/2, pm = 2/2, m = 3/3
  - (4) i = 2/2, c = 2/2, pm = 1/1, m = 3/3

### **PHYSIOLOGY OF DIGESTION**

- 12. Enzyme present in saliva is:
  - (1) Maltase
- (2) Ptyalin
- (3) Sacrase
- (4) Invertase
- **13**. Maximum digestion of food take place in -
  - (1) Stomach
- (2) Jejunum
- (3) Colon
- (4) Duodenum
- 14. Absence of which of these in bile will make fat digestion difficult-
  - (1) Cholesterol
- (2) Salts
- (3) Pigment
- (4) Acids
- **15**. Pancreatic juice is released into-
  - (1) Duodenum
- (2) Ileum
- (3) Stomach
- (4) Jejunum.
- 16. The three secretions meeting the food in small intestine are-
  - (1) Bile juice, pancreatic juice and intestinal juice
  - (2) Pancreatic, intestinal and gastric juice
  - (3) Bile, pancreatic and gastric juice

(4) Bile, gastric juice and Saliva.

- Which one of the following hormone inhibits the **17**. secretion of gastric juice-
  - (1) Gastrin
- (2) Secretin

(3) CCK

- (4) Enterogastrin
- The enzyme that catalyse the changing of emulsified oil to fatty acids and glycerol is-
  - (1) Pepsin
- (2) Lipase
- (3) Amylase
- (4) Sucrose

#### DIGESTION AND ABSORPTION **19**. Point out the odd one-**31**. Pepsinogen is converted to pepsin by:-(1) Rennin (2) Secretin (1) Low pH (2) Trypsinogen (3) Calcitonin (4) Oxytocin (4) Enterokinase (3) Chymotrypsin **20**. Which one is not an enzume of digestive system-**32**. Mucus is secreted by the :-(1) Enterokinase (1) Stomach (2) Duodenum (2) Amylase (3) Large intestine (4) All of the above (3) Trypsin (4) Enterogastrin **33**. Lactose composed of :-(1) Glucose + galactose (2) Glucose + fructose **21**. Secretin stimulates the production of (3) Glucose + glucose (4) Glucose + mannose (1) Saliva (2) Gastrin (3) Bile (4) Pancreatic juice 34. Which of the following stimulates the secretion of gastric juice :-The cells in the wall of intestine are stimulated to 22. (1) Gastrin produce secretin by-(2) Enterogasterone (1) Cholecystokinin (2) Bile juice (3) Secretin (3) Acid in chyme (4) Gastrin (4) Hepatocrinin Pancreatic lipase acts upon-**23**. 35. If for some reason the parietal cells of the gut (1) Glycogen (2) Triglycerides epithelium become partially non-functional, what (3) Disacharides (4) Polypeptides is likely to happen? 24. Amount of fat increases in the body due to excess (1) The pH of stomach will fall abruptly intake of-(2) Steapsin will be more effective (1) Vitamins (2) Minerals (3) Proteins will not be adequately hydrolysed by (3) Carbohydrates (4) None of these pepsin into proteoses and peptones 25. (4) The pancreatic enzymes and specially the trypsin Bile is formed inand lipase will not work efficiently (1) Gall bladder (2) Liver (3) Spleen (4) Blood 36. In stomach after physical and chemical digestion 26. food is called:-Enzyme trypsinogen is changed to trypsin by-(1) Gastrin (2) Enterogastrone (1) Chyme (2) Chyle (3) Enterokinase (4) Secretin (3) Amino acid (4) Bolus 27. Castle's intrinsic factor is connected with internal **37**. A person who is eating rice. His food contains absorption of (1) Cellulose (2) Starch (1) Pyridoxine (2) Riboflavin (4) Protein (3) Lactose (3) Thiamine (4) Cobalamine 38. In mammals milk is digested by action of-**28**. Ptyalin, a digestive enzyme produces-(2) Amylase (1) Rennin (1) Maltose (2) Smaller peptides (3) Intestinal bacteria (4) Invertase (3) Peptones (4) Amino acids 39. Hydrolytic enzymes which does not act on low pH **29**. Rennin acts onare called as :-(1) Milk, changing casien into calcium paracaseinate (1) Protease (2) α-Amylase at 7.2 - 8.2 PH (4) Peroxidase (3) Hydrolases (2) Proteins in stomach (3) Fat in intestine **40**. Which of the following is a dissacharide: (4) Milk, changing casien into calcium paracaseinate (2) Fructose (1) Glucose at 1-3 PH (3) Sucrose (4) Galactose Muscular contraction of Alimentary canal are-**30**. 41. Glucose and galactose unite to form (1) Circulation (2) Deglutition

(1) Maltose

(3) Isomaltose

(3) Chewing

(4) Peristalsis

(2) Sucrose

(4) Lactose

DIGESTION AND ABSORPTION											
42.	Gastric enzyme pepsin rewith in a limited pH condition (1) 3.20 to 4.80 (2) 4.00 to 4.50 (3) 7.00 to 8.50 (4) 1.50 to 2.60	acts only in acidic medium ncentration. It varies:	52. 53.	Pancreatic juice is: (1) alkaline in nature (2) acidic in nature (3) neutral in nature (4) both acidic and alkaline in nature What is the common passage for bile and pancreatic							
43.	of : (1) Proteins	the main site for digestion  (2) Carbohydrates  (4) Nucleic acids		juices (1) Ampulla of Vater (3) Duct of Wirsung (2) Ductus Choledochu (4) Duct of Santorini							
44.	(3) Fats  The chief function of bi (1) Digest fat by enzyma (2) Emulsify fats for dige (3) Eliminate waste proc (4) Regulate digestion of	atic action estion lucts	54.	Cells of the pancreas is not digested by their own enzymes because:  (1) enzymes are secreted in inactive form (2) cells are lined by mucous membrane (3) enzymes are released only when needed (4) none of the above							
<b>45</b> .	The toxic substance are obody by : (1) Lungs (3) Liver	detoxicated in the human  (2) Kidneys  (4) Stomach	55.	Bile salts help in :- (1) digestion of fats (2) emulsification of fats (3) absorption of fats (4) both absorption and di	igestion of fats						
46.	Function of HCl in stom (1) Activate trypsinogen (2) Facilitate absorption (3) Dissolve enzymes	to trypsin	56.	Bile secretion is proportional to the concentration of: (1) Protein (2) Fat (3) Carbohydrate (4) None of these							
<b>47</b> .	is known as : (1) Systole (3) Peristalsis	n in the alimentary canal  (2) Diastole  (4) Metachronal	57. 58.	pH of gastric juice is: (1) 2 (2) 4 (3) 6 (4) 8  Which of the following hormone helps in secretion of HCl from stomach? (1) renin (2) gastrin (3) secretin (4) somatomedin							
48.	Succus entericus is also c (1) Gastric juice (3) bile juice	called : (2) Intestinal juice (4) Saliva	59.	Carbohydrate digestion structure? (1) mouth							
49.	Just as hydrochloric acid i (1) haemoglobin to oxyge (2) enterokinase to typsin (3) bile juice to fat (4) glucagon to glyconger	ogen	60.	(3) stomach (4) none of these  Which of the following is called pseudo digesting juice?  (1) Saliva (2) Bile juice							
50.	What is the function of ga (1) Production of enzyme (2) Production of mucin (3) Production of hormon (4) Production of HCl		61.	(3) Gastric juice (4) Intestinal juice  Pepsinogen is secreted by: (1) chief-cells (2) oxyntic cells (3) mast cells (4) parietal cells							
<b>51</b> .	Which of the following is	different from others :	<b>62</b> .	Prorennin is secreted by:	(0) 1: 11-						

(1) Gastrin

(3) Glucagon

(2) Ptyalin

(4) Secretin

(1) zymogen cells

(3) islets of langerhans

(2) sertoli cells

(4) hepatacytes

### **DIGESTION AND ABSORPTION**

Ans.

Que. Ans. Which one of the following is the correct matching

	of the site of acion on the given substrate, the enzyme acting upon it and the end product:								testine :- (1) Iron (2) sodium (3) Bile salts (4) Vitamin B <sub>12</sub>							
	<ul> <li>(1) Small intestine: proteinspepsin amino acids</li> <li>(2) Stomach: fatslipase micelles</li> <li>(3) Duodenum:</li> </ul>								Fully digested food reaches to liver by (1) Hepatic portal vein (2) Hepatic artery (3) Hepatic vein (4) All the above							
	tryglycerides $\xrightarrow{\text{tryp sin}}$ monoglycerides  (4) Small intestine: starch $\xrightarrow{\alpha-\text{amylase}}$ disaccharide							72.	The organ in human body where glycogenolysis take place?							
64.	(maltose) Which one of the following enzymes carries out the initial step in the digestion of milk in humans? (1) Pepsin (2) Rennin (3) Lipase (4) Trypsin								(1) muscles (2) liver (3) small intestine (4) kidney  Protein are mainly required in the body for- (1) Growth (2) Repair							
65.	Another substance of the category of glucose, sucrose and maltose is- (1) Myoglobin (2) Starch (3) Amino acids (4) Haemoglobin								<ul> <li>(3) Both of these</li> <li>(4) None of these</li> <li>In mammals carbohydrate is stored in the form of-</li> <li>(1) Lactic acid in muscles</li> <li>(2) Glycogen in liver and muscles</li> <li>(3) Glucose in liver and muscles</li> </ul>							
ABSORPTION - ASSIMILATION - EGESTION									(4) Glycogen in liver and spleen							
<b>66</b> .	Glycogen is stored in-						DIS	DISORDERS								
	(1) Blood (3) Lungs (2) Liver (4) Kidney							<b>75</b> .	75. Jaundice is a disorder of : (1) Skin and eyes (2) Digestive system							
<b>67</b> .	Lacteals take part-							(3) Circulatory system (4) Excretory s								
	<ul><li>(1) Digestion of milk</li><li>(2) Absorption of fat</li><li>(3) Digestion of lactic acid</li><li>(4) None of the above</li></ul>								Osteomalacia occurs due to the deficiency of : (1) Vitamin A (2) Vitamin B (3) Vitamin C (4) Vitmina D							
<b>68</b> .	Fatty acids and glycerol are first absorbed by- (1) Lymph vessels (2) Blood (3) Blood capillaries (4) Hepatic portal Vein								Protein deficiency leads to : (1) kwashiorkar (2) marasmus (3) cretinism (4) both (1) and (2)							
<b>69</b> .	Water absorption is mainly occur in :- (1) Colon (2) Intestine (3) Gastrium (4) Appendix								A patient is generally advised to specially, consume more meat, lentils, milk and eggs in diet only when the suffers from:  (1) Kwashiorkar  (2) Rickets  (3) Anaemia  (4) Scurvy							
						AN	ER KEY									
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Ans.	3	2	1	1	2	1	1	3	1	2	1	2	4	2	1	
Que.		17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Ans.	1	4	2	1	4	4	3	2	3	2	3	4	1	4	4	
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Ans.	1	4	1	1	3	1	2	1	2	3	4	4	1	2	3	
Que.		47	48	49	50	51	52	53	54	55	56	57	58	59	60	
Ans.		3	2	2	2	2	1	1	1	2	2	1	2	1	2	
Que.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	

.

Which of the following is absorbed in proximal in-