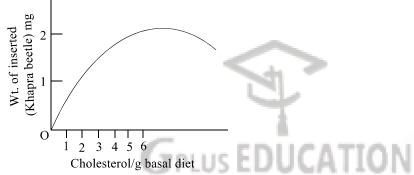
GPLUS EDUCATION

			
Date	:		
Time	:		BIOLOGY
Marks	:		
		DIGESTION AND ABSORPTION	

	Single Correct	Answer Type					
1.	The richest sources of vitamin-B ₁₂ are						
	a) Goat's liver and spirulina	b) Chocolate and green gr	am				
	c) Rice and hen's egg	d) Carrot and chicken's b					
2.	2. The contraction of gall bladder is due to						
	a) Gastrin b) Cholecystokinin	c) Secretin	d) Kinase				
3.	In infant, the process of defecation occurs by						
	a) Reflex action without voluntary control						
	b) Reflex action with voluntary control						
	c) Voluntary relaxation of external an sphincter						
	d) Involuntary relaxation of internal and sphincter						
4.	Deficiency of tocopherol in the human body causes	which condition?					
	a) Beri-beri b) Pellagra	c) Infertikity	d) Scurvy				
5.	Brunner's glands are located in		•				
	a) Oesophagus b) Intestine	c) Stomach	d) Duodenum				
6.	Which is the correct chronological order for food pro	ocessing in human beings?					
	a) Ingestion of food \rightarrow Digestion \rightarrow Absorption \rightarrow As		ligested)				
	b) Ingestion \rightarrow Assimilation \rightarrow Digestion \rightarrow Absorpti	on → Egestion					
	c) Ingestion \rightarrow Digestion \rightarrow Absorption \rightarrow Egestion \rightarrow Assimilation						
	d) Digestion \rightarrow Ingestion \rightarrow Assimilation \rightarrow Absorpti						
7.	Riboflavin is	A HUN					
	a) Vitamin-B ₁₂ b) Vitamin-B ₂	c) Vitamin-C	d) Vitamin-D				
8.	The stored food in animals is called						
	a) Cellulose b) Starch	c) Glucose	d) Glycogen				
9.	Consider the following statements.						
	I. The anti-pellagra vitamin is nicotinamide present	in milk, yeast, meat and lea	nfy				
	vegetables.						
	II. Crypts of Leiberkuhn are present in the liver.						
	III. Steapsin is the pancreatic amylase.						
	a) I and II correct b) II and III correct	c) I and III incorrect	d) II and III incorrect				
10.	Which of the following vitamins is water soluble as v	well as an antioxidant?					
	a) Vitamin-B ₁ b) Vitamin-A	c) Vitamin - D	d) Vitamin-C				
11.	Hydrochloic acid (HCl) is secreted by which of the fo	ollowing cells of stomach?					
	a) Chief cells	b) Parietal cells (oxyntic	cells)				
	c) Peptic cells	d) Goblet cells					
12.	What are the narrow extensions of the pulp cavity?						
	a) Pulp b) Dentine	c) Root canals	d) Periodontal ligament				
13.	Read thoroughly the following statements concerning	ng with the assimilation of f	food. Identify true and false				
	statements and choose the correct option from the g	given codes					
	I. Conversion of amino acid into glucose and then int	to fat is irreversible reactio	n				
	II. During the conversion of amino acids into glucose	e, amino group of amino aci	ds is removed				
	III. Excess of amino acids are converted into glucose	and fats and thus are store	d				
	IV. Excess of simple sugars are stored in the liver and						

			Opius zaucacion		
	V. Process of gluconeogenesis occurs in the kidney a				
	a) I, II, IV and V true while III is false		re true while IV is false		
	c) I, II, III and IV are false while V is true	=	false while IV and V are true		
14.	Why the eyes of the patients turns yellow during jau				
	a) Due to the deposition of bile pigments	b) Due to the ejec mouth	tion of stomach content through		
	c) Due to the stomach malfunctioning	d) Due to the exce	essive vomiting		
15.	Which one of the following is a fat-soluble vitamin a	nd its related defici	iency disease?		
	a) Ascorbic acid - Scurvy	b) Retional	- Xerophthalmia		
	c) Cobalamin - Beri-beri	d) Calciferol	- Pellagra		
16.	Secretin and cholecystokinin are secreted by				
	a) Brunner's gland found in duodenum				
	b) Paneth cells present in duodenum				
	c) Goblet cells present through out the epithelium of	f the stomach			
	d) Oxyntic cells present on the side walls of the gast	ric glands			
17.	Deficiency of Vitamin-B ₁₂ causes				
	a) Cheilosis b) Thalassemia	c) Beri-beri	d) Pernicious anaemia		
18.	In human beings, digestion of carbohydrates starts	from the mouth. Ho	w much percentage of it is digested		
	in the mouth?				
	a) 10-20% b) 25-30%	c) 60%-75%	d) About 85%		
19.	Which one is a fat soluble vitamin?				
	a) Vitamin-H b) Vitamin-C	c) Vitamin-B	d) Vitamin-D		
20.	Bacteria <i>E</i> , <i>coli</i> are found in which part of the alime	ntary canal?			
	a) Caecum b) Rectum	c) Colon	d) All of these		
21.	During starvation, what will be sequence of ending	of food stuffs?			
	a) Carbohydrate-fat-protein	b) Carbohydrate-	protein-fat		
	c) Fat-protein-carbohydrate	d) Fat-carbohydr	ate-protein		
22.	The islets of Langerhans are found in	NOITA			
	a) Pancreas b) Stomach	c) Liver	d) Alimentary canal		
23.	Which is the hardest material of the human body?				
	a) Dentine b) Enamel	c) Teeth	d) Bone		
24.	Characteristic of mammalian liver is				
	a) Kupffer's cells and leucocytes	b) Leucocytes and	d canaliculae		
	c) Glisson's capsules and Kupffer's cells	d) Glisson's capsu	ıle and leucocytes		
25.	Least peristalsis occurs in				
	a) Rectum b) Stomach	c) Oesophagus	d) Duodenum		
26.	Digestive enzymes are				
	a) Hydrolases b) Oxidoreductases	c) Transferases	d) Lyases		
27.	Scurvy is caused due to deficiency of vitamin				
	a) B b) A	c) E	d) C		
28.	Duodenum has characteristic Brunner's gland, which	h secrete two horm	ones called		
	a) Kinase, oestrogen	b) Secretin, chole	cystokinin		
	c) Prolactin, parathormone	d) Oestradiol, pro	ogesterone		
29.	The lacteals are found in				
	a) Salivary glands b) Villi	c) Spleen	d) Mammary glands		
30.	The pH value at which pepsin becomes inactive is				
	a) Below pH 2 b) Below pH 5	c) Above pH 3	d) Above pH 5		
31.	Intestional lymphangiectasia is characterised by				
	a) Dilated intestinal lacteals	b) Contracted int	estinal lacteals		
	c) Descreased number of peneth cells	d) Increased num	d) Increased number of peneth cells		

32. Deficiency of cyanocobalamine causes d) Ariboflavinosis a) Pernicious anaemia b) Pellagra c) Ketomalacia 33. Which combination is responsible to increase the cholesterol level of the blood? a) Saturated fats and proteins b) Unsaturated fats and proteins c) Both saturated and unsaturated fats d) Saturates fats and polyunsaturated fatty acids 34. FAD is a coenzyme derived from a) Riboflavin b) Vitamin-B₁₂ c) Thiamine d) Niacin 35. What name would you suggest for a thoroughly mixed food the with gastric juices by the churning movements of muscular stomach wall? a) Bolus b) Chyme c) Either bolus or chyme d) None of these 36. Which of the following is the constituent of pancreatic juices? a) Sodium bicarbonate and three proenzymes b) Potassium bicarbonate and three proenzymes c) Sodium bicarbonate and five proenzymes d) Potassium bicarbonate and five proenzymes 37. In an experiment, freshly hatched larvae of an insect (Khapra beetle) were reared on a basal diet (complete diet without cholesterol) with increasing amounts of cholesterol. Results obtained are shown in given the graph.



The graph indicates

- a) Cholesterol is an essential dietary requirement of Khapra beetle
- b) Growth of Khapra beetle is directly proportional to cholesterol concentration
- c) Cholesterol concentration of 2 μg/g diet is the optimum level
- d) Growth of Khapra beetle is inhibited when cholesterol concentration exceeds 2μg/g diet
- 38. Which one serves as a passage for both food and air?
- c) Gullet
- d) Glottis

- a) Larynx b) Pharynx
 - a) Snakes
- b) Crocodiles
- c) Horse
- d) Elephant
- 40. Choose an incorrect statement regarding the functions of large intestine
 - a) Large intestine absorbs the products of bacterial digestion

39. Which of the following animal exhibits diphyodont dentition?

- b) Absorption of electrolytes, water and some amino acids occur mainly in the stomach
- c) Mucous lubricates faecal matter
- d) Feces are temporarily stored in the rectum
- 41. Generally, new born babies shows a symptoms of a mild form of jaundice which is known as
 - a) Prehepatic jaundice

b) Hepatic jaundice

c) Neonatal jaundice

- d) Physiological jaundice
- 42. Which one of the following combination of vitamins are synthesised by bacteria?
 - a) Vitamin-B₁₂ and K
- b) Vitamin-B₁ and B
- c) Vitamin-B and B₁₂
- d) Vitamin-K and D

- 43. The best source of vitamin-B₁is
- a) Whole Wheat bread

b) Cod liver oil

	c) Egg	d) Curd			
44.	Which one of the following statements is/are correct	t?			
	I. Frenulum is the fold by which tongue is attached to	the floor of mouth or oral	cavity		
	II. Lower surface of the tongue has little projection which bears taste buds				
	III. Pharynx is the common passage for food and air				
	IV. Sphincter of oddi guards and regulates the opening	ng of stomach into duodeni	ım		
	V. Colon has 3 parts an ascending, a transverse and a	descending part and the la	nter opens into the rectum		
	a) I, II and III are correct b) IV and V are correct	c) I, II, III, IV and V	d) I, III and V are correct		
45.	Wisdom teeth in human is				
	a) 3 rd molar and 4 in number	b) 3 rd molar and 2 in num	iber		
	c) 2 nd molar and 4 in number	d) 2 nd molar and 2 in nun	nber		
46.	Which one of the correct option for labels A, B and C	in the given diagram?			
	A C				
	a) A-Liver, B-Mucosa, C-Peritoneum	b) A-Liver, B-Circular mus	scle layer, C-Serosa		
	c) A-Pancreas, B-Mucosa, C- Peritoneum	d) A-Pancreas B- Submuc	osa, C- Serosa		
47.	What is the medium of human saliva?				
	a) Acidic b) Basic	c) Neutral	d) Highly acidic		
48.	Small projections found on the upper surface of tong	ue are called			
	a) Frenulus b) Taste buds	c) Sulcus terminals	d) Papillae		
49.	The Digestive enzyme that is not found in human par	ncreatic juice is			
	a) Nucleotidase b) Nuclease	c) Trypsin	d) Lipase		
50.	Which one of the following enzymetic reaction is inc	orrect?			
	a) Nucleic acids $\xrightarrow{\text{Nucleotidase}}$ Nitrogen bases + Pentose sugar	b) Fat Lipase Pancreatic	Fatty acids + Diglycerids		
		,			
	Starch $\xrightarrow{\alpha \text{ amylase}}$ Maltose + Isomaltose + α -	d) Proteins $\xrightarrow{\text{Pepsin}}$ Peptor	nes + Proteose		
	dextrias	7 reptor	ics Trotcose		
51.	Bile salts act as activator of which enzyme?				
	a) Pepsinogen b) Trypsinogen	c) Lipase	d) Pancreatic amylase		
52.	Sphincter of Oddi guards				
	a) Hepato-pancreatic duct	b) Common bile duct			
	c) Pancreatic duct	d) Cystic duct			
53.	Stomach located on the upper left portion of abdomi	nal cavity has three parts, a	aA portion into which		
	the oesophagus open, aB region and aC porti	ion, which opens into small	intestine.		
	Identify A, B and C to complete the given NCERT stat	ement and choose the corr	ect option accordingly		
	a) A-cardiac, B-fundic, C-pyloric	b) A-fundic, B-cardiac, C-p	oyloric		
	c) A-pyloric, B-cardiac, C-fundic	d) A-pyloric, B-fundic, C-c	ardiac		
54.	The opening of the common bile duct is guarded by s	sphincter?			
	a) Pyloric b) Ileo-caecal	c) Oddi	d) Muscularis mucosa		
55.	Which part of small intestine opens into large intesti	ne?			
	a) Colon b) Jejunum	c) Ileum	d) Duodenum		

56.	Which one of the following pairs is not correctly ma			
	a) Vitamin-B ₁₂ - Pernicious anaemia	b) Vitamin-B ₆ - Loss of appetite		
	c) Vitamin-B ₁ - Beri-beri	d) Vitamin-B ₂ - Pellagra		
57.	In human teeth, which helps in cutting?			
	a) Canine b) Incisor	c) Molar	d) Premolar	
58.	Medium, in which pepsin is active?			
	a) Neutral b) Alkaline	c) Acidic	d) Isotonic	
59.	Glisson's capsules are found, in which organ of mam	imals?		
	a) Stomach b) Kidney	c) Testis	d) Liver	
60.	What is the process of food passage from buccal cav		_	
	a) Mouth \rightarrow Buccal cavity \rightarrow Pharynx \rightarrow Oesophagus		_	
	Mouth \rightarrow Buccal cavity \rightarrow Pharynx \rightarrow Oesophagus	s → Stomach → Duodenum -	→ lleum → Caecum →	
	Rectun			
	c) Mouth \rightarrow Buccal cavity \rightarrow Pharynx \rightarrow Larynx \rightarrow St	omach → Small intestine →	Large intestine	
	d) Mouth to buccal cavity \rightarrow Pharynx \rightarrow Food pipe \rightarrow	Stomach → Large intestine	$e \rightarrow Small intestine$	
61.	Examination of blood of a person suspected of having	ng anaemia, shows large, im	ımature, nucleated	
	erythrocytes without haemoglobin. Supplementing	his diet with which of the fo	ollowing is likely to alleviate	
	his symptoms?			
	a) Thiamine	b) Folic acid and cobalam	in	
	c) Riboflavin	d) Iron compounds		
62.	What do you mean by dental formula?			
	a) An arrangement of teeth in mouth in the order of	I, C, PM, M		
	b) An arrangement of teeth in each half of the upper	and lower jaw in the order	of I, C, PM, M	
	c) An arrangement of teeth in upper jaw in the orde			
	d) An arrangement of teeth in the lower jaw in the o			
63.	Improper balance diet may cause			
	a) Self-poisoning	b) Scarcity of moisture in	eyes	
	c) Feeble muscles	d) All of the above		
64.	Which of the following metals is present in vitamin-	B ₁₂ ?		
	a) Cobalt b) Copper	c) Zinc	d) Magnesium	
65.	If pancreas is removed, the compound, which remain	ins undigested is	, ,	
	a) Carbohydrates b) Fats	c) Proteins	d) All of these	
66.	Cattle fed with spoilt hay to sweet clover, which con	tains dicumarol		
	a) Are healthier due to a good diet	b) Catch infections easily		
	c) May suffer vitamin-K deficiency and prolonged	d) May suffer from beri-b	eri due to deficiency of	
	bleeding	vitamin-B	Š	
67.	Crypts of Leiberkuhn are involved in			
	a) Secretion of succus entericus	b) Secretion of rennin		
	c) Secretion of ptyalin	d) Digestion of food		
68.	Ptyalin is inactivated by a component of gastric juice			
	a) Pepsin b) Mucus	c) Rennin	d) HCl	
69.	Which combination is not correctly matched?	<i>cy</i> 1.0	.,,	
07.	a) Vitamin-K – Faulty in blood clotting	b) Vitamin-C – Pyorrhoea	crack on mouth corner	
	c) Vitamin-B ₂ – Beri-beri	d) Vitamin-A – Night blin		
70	How many deciduous teeth are present in human?	.,		
, 0,	a) 22 b) 24	c) 20	d) 18	
71	Crypts of Leiberkuhn are present in	5) 10	w _j 10	
, 1.	a) Small intestine b) Liver	c) Stomach	d) Colon	
72	Study thoroughly the following statement and ident	•	•	
	I Rile calt present in hile is responsible to emulsify t			

	III. The pH of hepatic bile is 8.6, while pH of gall blad	der is 7.6 or 7.5			
	IV. The flow of bile from liver takes place through hepatic duct, common bile duct, -hepatopancreatic				
	ampulla and finally to the first part of small intestine				
	V. Gall bladder in rat and horse does not store bile				
	Choose the correct option				
	a) I, III and IV are incorrect, while II and V are correct	et			
	b) Al statement are correct				
	c) Statement II and V are incorrect while, I, III and IV	are correct			
	d) All statement are incorrect				
73.	Read the following statements thoroughly and identi	fy wheather they are true a	and false. Choose the right		
,	option accordingly	ing which they are true t	and raiser anosse the right		
	I. Bile is produced and stored in the liver and gall bla	dder, respectively			
	II. Common bile duct is the fusion of all the right and				
	III. Hepato-pancreatic duct opens into the proximal p	=			
	IV. Pancreas consists of two parts, exocrine and endo		in and alucagon hormone		
	and pancreatic juices containing enzymes, respective		in and gracagon normone		
	V. Pepsinogen, a secretion of chief cells is activated b	-			
	VI. Peptides are converted into dipeptides with the a	- -			
	a) All statements are true	etion of carboxypeptidase			
	b) All statement are false				
	c) Statement I, III, IV and V are true while II and VI at	ra falsa			
	d) Statement I, III, V and VI are true while III and IV a				
74	The digestion of starch by amylase is completed in the				
<i>,</i> 1.	a) Mouth b) Oesophagus	c) Stomach	d) Duodenum		
75.	Which of the following fatty acids is not synthesized		u) Duouenum		
73.	a) Glycerol b) Cholesterol	c) Linoleic acid	d) Both (a) and (b)		
76	In horses, rabbits, hares, the cellulose gets digested i		u) botii (a) aliu (b)		
70.	a) Caecum b) Stomach	c) Appendix	d) Rumen		
77	Pepsinogen (inactive form) is converted into active f	,	•		
//.	following compound?	orm of enzyme pepsin with	i the help of which of the		
	a) Proenzyme b) Hydrochloric acid	c) Electrolyte	d) Bicarbonates		
7Ω	Poison glands of snake are modified	c) Electrolyte	u) bicar bollates		
70.	-	c) Salivary glands	d) Endocrine glands		
70	In the Absence of enterokinase, the digestion of		-		
79.	a) Maltose b) Amino acid	c) Albumin	d) Starch		
90	-	•			
ou.	Vitamin-B ₁ , responsible for normal working of huma a) Green vegetables and fruits	b) Meat and lentils	eu II oili		
	,				
01	c) Whole wheat flour and its derivatives	d) All of the above	are aunalied with a		
81.	Small finger-like projection, which produce numerous network of	is inicroscopic projections	are supplied with a		
		h) Dland anvillaring only			
	a) Blood capillaries and lacteal	b) Blood capillaries only	l and makes		
02	c) Lacteal only	d) A large lymphoid vesse	i and vaives		
82.	,) D1 1'	1) () ()		
00	a) Scurvy b) Xerophthalmia	c) Bleeding	d) Osteomalacia		
83.	The largest variety of digestive enzymes is found in	-) 0	1) D		
0.4	a) Carnivores b) Herbivores	c) Omnivores	d) Parasites		
84.	Pylorus is present between	L) D			
	a) Small and large intestine	b) Pancreas and small into			
	c) Oesophagus and stomach	d) Stomach and duodenur	n		

II. Bicarbonates of sodium, potassium, glycocholate and faurocholate of sodium are bile salts

				Opius Luucutioi
85.	Identify the type of gastroi		on the functions given belo)W
	I. Stimulates the crypts of I			
	II. Inhibits the secretion of			
	III. Stimulates Brunner's gl			
	Chooses the correct option	• •) II D	D. I. Partanal tarta
		b) I-Duocrinin	c) II-Duocrinin	d) I-Enterokinin
	II-Duocrinin	II-Cholecystokinin	II-Cholecystokinin	II-Somatostatin
0.6	III-Enterokinin	III-Enterokinin	III-Villikinin	III-Duocrinin
86.	Go through the following s	tatements regarding <i>Ory</i>	ctolagus and select the cor	rect option
	I. Denition is heterodont			
	II. Canines are absent			
	III. Herbivorous and diaste			
	IV. Incisors are chisel like a			
	V. The dental formula is 20			
	a) I, II and III are true, whi			
	b) III and II and V are true			
	c) I, III and V are true whil			
	d) All the above are correc			
87.	,	ne splits acetylcholine in		
	a) Acetone and choline		b) Acetic acid and choline	
	c) Aspartic acid and acetyl		d) Amino acid and cholin	e
88.	Emulsification of fat will no	ot occur in absence of		
	a) Lipase	b) Bile pigments	c) Bile salts	d) Pancreatic juice
89.	Which of the following ani	mals eats its prey?		
	a) Leech	b) Starfish	c) Sepia	d) Both (b) and (c)
90.	Aggregates of lymphoid tis	sue present in the distal	portion of the small intestir	ne are known as
	a) Villi	b) Peyer's patches	c) Rugae	d) Choroid plexux
91.	In the wall of alimentary ca	anal, what is the actual se	equence from outer to inner	?
	a) Serosa, longitudinal mu	scle, mucosa, submucosa	b) Mucosa, serosa, longit	udinal muscle
	c) Serosa, longitudinal mu	scle, circular muscle,	d) Serosa, longitudinal m	uscle, submucosa, mucosa
	submucosa, mucosa			
92.	Diastema refers to			
	a) Gap between the teeth		b) Gap between tongue a	
	c) Ciliary cells on alimenta	=	d) Cell lining along phary	rnx
93.	Which of the following is re	egarded as the source of	••	
	a) Fats		b) Carbohydrates and fat	S
	c) Carbohydrates only		d) Minerals and vitamins	
94.	Enterokinase converts			
	a) Trypsinogen to trypsin		b) Pepsinogen to pepsin	
	c) Chymotrypsin to pepsin	ogen	d) Pepsin to chymotrypsi	in
95.	Which of the following are	required in minimum an	nount by human?	
	a) Iron, iodine, carbon, ma	nganese, copper, oxygen	b) Iron, iodine, manganes	se, copper, zinc, fluorine
	c) Iron, iodine, manganese	, zinc, hydrogen	d) Nitrogen, oxygen, zinc	, fluorine
96.	Which one of the following	is vestigial organ of hum	nan?	
	a) Hair	b) Intestine	c) Wisdom teeth	d) Muscle of glottis
97.	Lysozyme, one of the const	ituent of the saliva of hu	man being acts like	
	a) Antibacterial agent	b) Zymogen	c) Amylase	d) Lipase
98.	Which teeth of human are	shovel-shaped and used	for nibbling, cutting and tea	ring?
	a) Canines	b) Premolars	c) Molars	d) Incisors
99.	Success entericus is			

a)	Intestinal	juice	b) (Sastric juice	c)	Bile juice		d) S	Salivary juice
100. Du	ring prol	onged hi	anger strik	e, what is the correct o	chro	nological	sequen	ce of endir	ng the food stuff?
				Carbohyc	_				
_	Fat-prote		=		-	Carbohyc	-		
-	-		-	r of simple sugar abso	-	-		-	ne ieiunum and
	mach?		· · · · · · · · · · · · · · · · · ·		- P			-president	,.,
	Glucose a	nd fruct	nse		h)	Glucose a	nd galac	rtose	
	Fructose				-	All of the	_	LUGC	
		_	secreted by	7	uj	in or the	above		
	Goblets co		-	Crypt of Lieberkuhn	c)	Islets of l	ongorha	nc d)I	Paneth cells
			-	• •	-		_	=	
			_				uon m n	iaiiiiiais. i	dentify wheather they
				correct option accord		="		1. 1.	
			_	n's capsule are the cha					
				ns that teeth are embe				-	
				vary glands in human l	oein	igs, out of	them pa	arotid, situ	ated beneath the
	0		lest salivar						
		•		enzymes) are not the s					
-	All staten				-	All staten			
c)	I and II ar	e true w	hile III an	d IV are false	d)	III and IV	are true	e while I ar	nd II are false
104. Di	gestion an	ıd distril	bution of n	utrients both function	s ar	e perforn	ned by		
a)	Blastocoe	els							
b)	Coelom								
c)	Spongoco	el							
d)				. 1					
105. Ca	mel in its	hump, s	tores						
a)	Water for	emerge	ency	1	b)	Fat for en	nergenc	y	
c)	Both fat a	nd wate	er for emer	gency	d)	Fat and p	roteins	as reserve	food for emergency
106. WI	hat is the	pH of hu	man saliva	a? EDIIC	١٨	TIO	M		
a)	7.0		b) 7	STO2 EDOF	c)	6.8	11	d) 6	5.0
107. Bil	e is comp	osed of	bile salts a	nd bile pigments whic	h ar	e		-	
a)	Sodium g	lycochol	late tauroc	holate and bilirubin, b	ilive	erdin, res	pectivel	У	
-	_	-		lium glycocholate taur		-	-		
_				cholate and bilirubin, r				,	
-	_	-		cholate and biliverdin,	-	-			
-	_	-		r secretions is correct		-	ith its so	nurce targ	et and nature of
	tion?	T the for	10 111116 10 4	i beer edons is correct	.,	iaterica w	Terr res se	ource, targ	ce and natare or
	Secretion		Source	Target		Δc	tion		
a)	Gastri	Stom	Oxyntic	Production of HCl	b)		Serto	Hypoth	Inhibition of
aj		ach	cells	1 Touticuoii of Tici	ינטן		li	alamus	secretion of
	n		cens			n		alaillus	
		linin					cells		gonadotrop-in
		g	6.11	<u> </u>	١,,		21		releasing hormone
c)	Entero	Duod	Gall	Release of bile juice	d)		Sinu	Juxtagl	Inhibition of release
	kinase	enu	bladder			Natriu	Atria	omeru-	of renin
	I	m			1	retic	1 1	lar	

Factor

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109. Pellagra is caused due to deficiency of

apparat

Node Mcells of atria

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	a) Niacin	b) Pantothenic acid	c) Tocopherol	d) Cyanocobalamin
110.	Osteomalacia is due to def	ficiency of		
	a) Vitamin-A	b) Vitamin-C	c) Vitamin-E	d) Vitamin-D
111.	What is the dental formula	a of human being?		
		b) $\frac{2123}{2213}$	2114	d) $\frac{2122}{2122}$
	a) $\frac{2123}{2123}$	$\frac{1}{2213}$	c) $\frac{2114}{2114}$	$\frac{a_{1}}{2122}$
112.	Lactose intolerance in adu	ılts is related to		
	a) Wheat indigestion		b) Mushroom indigestion	
	c) Milk indigestion		d) Barley indigestion	
113.	Secretion of pancreatic just	ice is stimulated by		
	a) Gastrin	b) Secretin	c) Enterogasterone	d) Enterokinase
114.	•	•	and dental formula with ref	•
	between 4 to 6 years?	Ü		3
		, 212	2103	2103
	a) $\frac{212}{212} \times 2 = 20$	b) $\frac{1}{213} \times 2 = 24$	c) $\frac{2103}{2103} \times 2 = 24$	d) $\frac{1}{2003} \times 2 = 22$
115.	Which of the following rep	oresent bile salts?		
	a) Haemoglobin and bilive		b) Bilirubin and biliverdir	1
	c) Bilirubin and haemoglo		d) Sodium glycocholate ar	
	Which is not a disorder of		, 0,	
	a) Jaundice	b) Diarrhea	c) Emphysema	d) Constipation
117.	What is the composition of	•	7 1 7	, ,
	a) Bile pigments and bile		b) Bile pigments and chol-	esterol
	c) Cholesterol and phosph		d) All of the above	
118.	Which one of the followin			
	a) C, E and A	b) B_1 and B_4	c) A, D and E	d) B ₃ and B ₅
119	Maximum percentage of li		oj 11, D ana B	a) 23 and 25
117.	a) Chylomicron	b) HDL	c) Arthritis	d) None of these
120	Enzyme sucrose hydrolys		c) manag	a) None of these
120.	a) Glucose and galactose		b) Glucose and fructose	
	c) Two molecule of glucos		d) Two molecule of fructo	as a
121	•	rstem is affected in celiac di	•	356
141.	a) Large intestine	b) Small intestine	c) Stomach	d) Duodenum
122	Which of the following cel	•	c) Stomach	d) Duodelluiii
122.	-	-	a) Overntia colla	d) Chief colle
1 2 2	a) β-cells	b) α-cells	c) Oxyntic cells	d) Chief cells
123.		of gastro-oesophageal sph		-
	a) Pyloric sphincter		b) Gastro-duodenal sphin	cter
	c) Cardiac sphincter		d) Sphincter of oddi	
124.		tial amino acid leads to der	-	
	a) Isoleucine	b) Valine	c) Threonine	d) Phenylalanine
125.	The essential vitamin for l	-		
	a) Vitamin-B ₆	b) Vitamin-A	c) Vitamin-K	d) Vitamin-E
126.		mino acids absorption in hi		
	a) Duodenum	b) Jejunum	c) Ileum	d) Both (a) and (b)
127.	Which of the following rep	oresents all proteolytic enz	ymes?	

a) Kwashiorkor b) Marasmus c) Both (a) and (b) d) Xerophthalmia 129. Identify, wheather the given nutrients are absorbed by the active transport, simple diffusion or facilitated transport

 $128. \ Which of the following is a protein-energy \ malnutrition \ related \ disorder?$

b) Cholecystokinin, pepsin, gastrin

d) Enterocrinin, gastrin, erepsin

a) Erepsin, trypsin, pepsinc) Lipase, ducrinin, trypsin

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I. Glucose		
II. Fructose		
III. Vitamin-K		
IV. Amino acids		
Choose the correct option accordingly		
a) I-Active transport		
II-Active transport		
III- Facilited		
IV-Simple diffusion		
b) I- Facilited transport		
II-Simple diffusion		
III-Active transport		
IV-Active transport		
c) I-Active transport		
II- Facilited transport		
III-Simple diffusion		
II-Active transport		
d) I-Simple transport		
II-Simple transport		
III-Facilited transport		
IV-Active transport		
130. Crypts of Leiberkuhn are example for		
a) Simple tubular gland	b) Coiled tubular gland	
c) Compound alveolar gland	d) Compound tubular gland	nd
131. Carnassial teeth are modified for	a) Compound tubular gla	nu
	c) Grinding	d) Cutting
, , ,	c) Gilliuling	d) Cutting
132. Hardest part in animal body is	a) Dontino	d) Enamal
a) Bone b) Hair 133. By which process, glucose and amino acids are absorbed	c) Dentine orbed in the small intestine?	d) Enamel
a) Active transport b) Passive transport	c) Osmosis	d) Selective absorption
134. The true stomach in ruminants, Where most of dige		a) beleetive absorption
a) Rumen b) Omasum	c) Reticulum	d) Abomasum
135. The layer of cells that secretes enamel of tooth is	c) Reticulum	uj Abomasum
	a) Ostooblast	d) Odontoblast
a) Dentoblast b) Ameloblast	c) Osteoblast	,
136. Which one of the following elements is essential for		_
a) Calcium b) Iodine	c) Phosphorus	d) Potassium
137. The amount of bile released is proportional to the a		15 A11 C.1
a) Fat in meal b) Protein in meal	c) Carbohydrate in meal	a) All of these
138. Pancreatic secretion and gall bladder contraction a		1) (1) 1 1 1 1
a) Gastrin b) Enterocrinin	c) Enterogasterone	d) Cholecystokinin
139. What are the trace components of our food?		
a) Fatty acids	b) Minerals and vitamins	
c) Monosaccharides	d) Amino acids	
140. The beri-beri is a paralytic disease caused by the de		
a) Funk b) G E Foxon	c) Eijkman	d) Stanley
141. Which of the following is not a source of Vitamin-A	?	
a) Carrot b) Mango	c) Apple	d) Yeast
142. 'Digestion' word means		
a) Burning of food b) Oxidation of food	c) Hydrolysis of food	d) Breakdown of food
143. What is the major site for the conversion of protein	s into free amino acids?	

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a) Spleen b) Liver 144. Digestion of protein is completed in	c) Intestine	d) Kidney			
a) Stomach b) Duodenum	c) Ileum	d) Both (b) and (c)			
145. What do you mean by the process of dige	-	aj zem (s) ana (e)			
a) Conversion of complex substances into simpler form					
b) Absorption of monomers by the body	F				
c) Conversion of monomers into polymer	5				
d) Absorption of water and food					
146. The pH of the digestive juices within the l	uman small intestine is between 7	7.5 and 8.5. This environment is			
slightly					
a) Basic b) Acidic	c) Neutral	d) None of these			
147. Which one of the following statements is	rue regarding digestion and absor	ption of food in humans?			
a) Oxyntic cells in our stomach secrete th	Fructose and amino	acids are absorbed through			
proenzyme pepsinogen	b) intestinal mucosa w Na ⁺	vith the help of carrier ions like			
c) Chylomicrons are small lipoprotein pa	ticles that d) About 60% of starcl	h is hydrolysed by salivary			
are transported from intestine into blo	od amylase in our mou	ith			
capillaries					
148. The given schematic diagram diepicts het	erodont teeth and its thecodont ar	rangement. Find the correct			
labelling for A-D from the options given b	elow				
9-0					
	M				
R/ SJA					
\sim					
a) A-Incisor, B-Canine, C-Premolar, D-Mo	ar b) A-Molar, B-Premola	ur C-Canine D-Incisor			
c) A-Incisors, B-Premolar, C-Canine, D-Mo					
149. Which of the following is not a function o	_	ir, d meisor, b danne			
a) Production of bile	b) Production of insuli	'n			
c) Glycogen storage	d) Detoxification				
150. Choose the incorrect statement regarding	-	erence to a normal nerson			
a) Human saliva is slightly acidic	numan algebrive system with reve	rence to a normal person			
b) In human being, four pair of salivary gl	and secretes saliva				
c) The quantity of saliva in adult man ma					
d) Enzyme amylase present in saliva is re		arch into simple sugar			
151. What type of teeths are absent in rabbit?	, p = 1.0.2.0 101 01.0 21.0 11.1 01.0 11.1 01.0 11.	an on mee emphe engan			
a) Molars b) Premolars	c) Canines	d) Incisors			
152. Which one is correctly matched?	-,	,			
a) Vitamin-E - Thiamine	b) Vitamin-D - Ribof	lavin			
c) Vitamin-B ₁ - Tocopherol	d) Vitamin –B ₁₂ - Cyan				
153. Nutritional disorder, keratomalacia is cau					
a) Calciferol b) Retinol	c) Nicotinamide	d) Biotin			
154. How many human teeth appear twice du	-	,			
a) 16 b) 32	c) 22	d) 20			
155. What is the correct dental formula of rat?	,				
	$\frac{3}{2}$ $\frac{1}{2}$ $\frac{2}{2}$ $\frac{2}{3}$	1,1,0,.0,3			
a) $1\frac{2}{2}C\frac{1}{1}PM\frac{2}{2}M\frac{3}{3}$ b) $1\frac{2}{1}C\frac{1}{1}PM\frac{2}{2}$	$\frac{\sqrt{3}}{3}$ $\frac{\sqrt{12}}{2}$ $\frac{\sqrt{12}}{1}$ $\frac{\sqrt{12}}{2}$ $\frac{\sqrt{13}}{3}$	d) $I \frac{1}{1}, C \frac{0}{0}, PM \frac{0}{0}, M \frac{3}{3}$			

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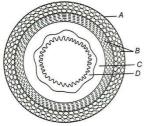
156. Secretin and cholecystokinin are digestive hormones. They are secreted in

			Gpius Eaucation
a) Oesophagus	b) Ileum	c) Duodenum	d) Pyloric
	roy worn out white and re	ed blood cells, bacteria and	l micro-organisms passing from
the liver are			
a) β-cells	b) T - cells	c) Kupffer's cells	d) Oxytocin cells
		g starch digestion. Separate	e true and false statements and
select the correct op	- -		
_	starts from the mouth		
	e starch is digested in the		
•	requires the action of pan	•	
IV. Digestion of food	is completed in the longes	st part of the alimentary ca	
a) All are true		b) I, III and IV are t	
-	while III and I are true		se while III and I are true
	-	vith the food (hydrolysed)	in the small intestine?
= -	ices and intestinal juices		
	intestinal juices and gastr	ic juices	
	estinal juices and biles		
d) Bile, gastric juices			
	·	noglycerides takes place by	
a) Lymph vessels wi	thin the villi	b) Wall of the stom	
c) Colon		d) Capillaries withi	n the villi
	in the stomach of rabbit is	•	
a) Pyloric sphincter	b) Ileo-caecal valve	c) Cardiac sphincte	er d) Uvula
162. Graveyard for RBCs i		. >	
a) Liver	b) Spleen	c) Kidney	d) Lymph glands
	wing statement regarding	the physiology of digestion	n and identify wheather they are
true or false		2	
	te option from the codes g		
•	nydrolases are present in o	omnivores, while the herbi	ivores, generally lack digestive
enzymes	GILOJED	00/11/011	
		amylase, proteinases, lipa	
			tive form because the proteins,
		ed by them in the absence	
=	-	ed by the exocrine part of p	pancreas
a) All statement are			
b) All statement are			
•	l IV are true while I and II		
-	II are true while III and IV	are false	
164. Pellagra is caused by	•		
a) Pyridoxine	b) Niacin	c) Folic acid	d) Biotin
165. Drowsiness after a h	-		
a) Increased blood p		b) Decreased pulse	
c) Reduced blood pr		d) Increased pulse	rate
	the stomach form irregul		
a) Villi		b) Lumen	
c) Rugae		d) Crypts of Lieber	kuhn
167. Where the liver is loo			
	ty just above diaphragm	b) In thoracic cavit	
c) Above the thoraci	c cavity	d) In abdominal ca	vity, just below the diaphragm
168. Enterogasterone is			
a) Hormone secreted	d by gastric mucosa	b) Enzyme secreted	d by mucosa
	7.0	- J J	•

c) Hormone secret	ed by duodenal mucosa	d) Secreted by endocr	rine gland related to digestion
169. Bile salts help in			
a) Emulsification	b) Mastication	c) Absorption	d) Alkalination
170. Which vitamin is th	ie most important one digestiv	e health?	
a) Vitamin-A	b) Vitamin-D	c) Vitamin-E	d) Vitamin-B
171. Facilated transport	, facilitates the absorption of		•
a) Fructose	b) Amino acid	c) Glucose	d) Both (a) and (b)
172. Maximum absorpti	•	,	
a) Colon	b) Rectum	c) Large intestine	d) Small intestine
•	ollowing disorders and charact		
	- Production of thick mucus	·	
, ,	that clogs airways		
b) Sickle cell	- Brain deterioration		
anaemia	beginning at months of age		
	- Extra fingers or toes		
· · · · · · · · · · · · · · · · · · ·	- Skeletal, eye and cardiovascu	ılar defects	
disease	, ,		
174. Which of the follow	ying has the highest pH?		
a) Gastric juice			
b) Bile			
c) Pancreatic juice			
d) Secretions of the	e intestinal glands		
	ments are based on the digesti	on and absorption of food	l. Select the correct and
_	ts and choose an option accord		
	of monosaccharides in the sto		
-	o acids (above 95%) are absor		
intestine			, , ,
	l completely before absorption	and is used by the body t	issues
	ater from the small intestine is	The colored to the first terms of the	
-	intain an osmotic balance with		
	correct, while III is incorrect		
	ct, while IV and V are incorrect		
•	correct, while I, II are incorrect		
	rectly, while I, II, III are incorre		
176. The gastric juice co	-		
a) Trypsin, pepsin,		b) Pepsin, lipase, renr	nin
c) Pepsin, amylase,	•	d) Trypsin, pepsin, re	
177. Compound saccular	• •))	
a) Intestinal glands	_	c) Gastric glands	d) Endocrine glands
, ,	in which of the following?	-) g	, 8
a) Vitamin-D	b) Vitamin-B ₂	c) Vitamin-B ₅	d) Vitamin –C
•	ring enzyme is not a componen		,
a) α- amylase	b) Lysozyme	c) Lipase	d) None of the above
180. Which enzyme is p		·)	,
a) Ptylin	b) Pepsin	c) Enterokinase	d) Maltase
• •	ring scales are similar to mamn	-	u) 1 1410400
a) Cycloid	b) Placoid	c) Ganoid	d) Cninoid
182. Read the statement	•	oj danoid	aj siinioia
	intestine is the longest protein	of the alimentary canal	
	gested food requires a very larg		
1		•	

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Identify the correct choice	e on the two statements.		
a) Statement A is correct,	B is wrong	b) Statement A and B are	both correct
c) Both the statements are wrong		d) Statement B is correct, A is wrong	
183. Among mammals, a signif	icant role in the digestion o	of milk is played by	
a) Rennin	b) Invertase	c) Amylase	d) Intestinal bacteria
184. Fats are emulsified by the	bile juice because it contai	ins	
a) Enzyme	b) Esterase	c) Bile salt	d) Bile pigment
185. Note the following	•		,
I. Dentition is heterodont.			
II. Canines are poorly dev			
III. Incisors are chisel-like	=		
IV. Herbivorous and diast			
	2/1, C 0/0, Pm 3/2, M 3/3		
Which of the above are tr			
a) I, II and IV	b) I, IV and V	c) I, II, IV and V	d) III, IV and V
186. Which of the following is		-, -,,	,, - · · · · ·
a) Over eating	b) Anxiety	c) Over sleeping	d) Food poisioning
187. Which one of the following	•		
action upon it and the end	_	t the site of action on the g	iven substrate enzyme
			α-Amylase
a) Duodenum — Triglyce	rides 	b) Small intestine — Stard	Ch ────────────────────────────────────
c) Small intestine – Prot	Pepsin		
c) Sman mestine – Frot	Amino acids	d) Stomach — Fats — Lipa	—→ Micelles
188. During intake of food, wh	The state of	nd into the glottic (enening	of wind nino)?
_	nto the entry of food glottis		or wind pipe):
	d by air present in wind pi		
	is prevented by annular rir		
	d by epiglottis into the glot		
189. Which one of the following		A STATE OF THE STA	
a) Glucose	b) Fructose	c) Galactose	d) Sucrose
190. Which is a symbiont insid	-	c) dalactose	u) sucrose
	ob) Neisseria meningitis	a) E goli	d) Transmana nallidum
	,	C) E.COLL	d) Treponema pallidum
191. Which is the inactive form		a) Twonin	d) Dontonos
a) Pepsinogen	b) Protease	c) Trypsin	d) Peptones
192. The deficiency of a vitami			d) Vitamin E
a) Vitamin-K	b) Vitamin-D	c) Vitamin-A	d) Vitamin-E
193. Animals consuming only			d) In an ativo no una
a) Herbivorous	b) Carnivorous	c) Omnivorous	d) Insectivorous
194. Substrate for the enzyme	•	.) Ci1	D. E
a) Nucleic acids	b) Protein	c) Starch	d) Fat
195. Vitamin-D is synthesized	in skin by the action of sun		
a) Cholesterol		b) 7-hydroxy cholesterol	
c) Cephalin cholesterol		d) All of the above	
196. Common bile duct is form	= '		
a) Pancreatic duct and cy		b) Pancreatic duct and he	-
c) Pancreatic duct, hepati	· · · · · · · · · · · · · · · · · · ·	d) Hepatic duct and cysti	
197. Given below the diagram		t alimentary canal. Label it	correctly and choose the
correct option accordingl	у		



	a) A-Muscularis; B-Serosa	ı; C-Submucosa; D-Mucosa		
		ı; C-Mucosa; D-Submucosa		
	c) A-Serosa; B-Muscularis	s; C-Mucosa; D-Submucosa		
	d) A-Serosa; B-Muscularis	s; C-Submucosa; D-Mucosa		
198.	Vitamin necessary for nor	rmal functioning of liver, cl	otting of blood and prevent	ing haemorrhage is
	a) Tocopherol	b) Phylloquinone	c) Cyanocobalamin	d) Riboflavin
199.	Absorption of fat occurs t	hrough the process of		
	a) Active transport	b) Passive transport	c) Osmosis	d) Simple diffusion
200.	Which is not used up in h	uman body?		
	a) Calcium	b) Phosphorus	c) Zinc	d) Barium
201.	The inflammation of intes	tinal tract is due to the infe	ection of which microorgan	ism?
	a) Bacteria	b) Virus	c) Fungus	d) Both (a) and (b)
202.	Which of the following en	zymes digests protein in st	tomach?	
	a) Trypsin	b) Pepsin	c) Erepsin	d) None of these
203.	A young infant may be fee	eding entirely on mother's	milk, which is white in colo	ur but the stools, which the
	infant passes out is quite	yellowish. This yellow colo	our is due to	
	a) Intestinal juice	31	b) Bile pigments passed t	hrough bile juice
	c) Undigested milk protei	n casein	d) Pancreatic juice poure	d into duodenum
204.	Go through the following	statements regarding dige:	stion and absorption is hun	nans. Identify the incorrect
	statements and choose a	correct option accordingly		
	a) If breast feeding is repl	aced by less nutritive food	lacking protein and calorie	es, the infant (below 14
	eqn) are likely to suffe	r from marasmus and kwas	shiorkor	
	b) Bile salts of bile juice a	ctivates enzyme lipase		
	c) Lipase present in the p	ancreatic juices is the prin	cipal enzyme for digestion	of fat
	d) Medulla oblongata of h	ind brain control reflex act	tion of vomiting	
205.	What are the various type	of secretions that are mix	ed with the food to facilitat	e the digestion of food in
	the intestine?			
	a) Bile salts, bile pigment	and gastric juices		
	b) Bile, pancreatic juices a	and intestinal juices		
	c) Bile, chymotrypsinoger			
	d) Bile salts, bile pigments	s and succus enterics		
206.	* - *	into active trypsin by the		
	a) Cholecystokinin	b) Enterocrinin	c) Enterokinase	d) Secretin
207.	Which of the following do			
	a) Pancreas- Glisson's cap	sule	b) Antigen- Antibody	
	c) Thyroid- Goitre		d) Enzyme- Substrate	
208.	_		link reaction during aerobi	=
	a) Vitamin - A	b) Vitamin-B ₁	c) Vitamin-B ₆	d) Vitamin-K
209.	In human, teeth are			
	a) Homodont and polyphy		b) Heterodont and polyph	
	c) Homodont and diphyo		d) Heterodont and diphyo	odont
210.	FAD, coenzyme is derived	from		

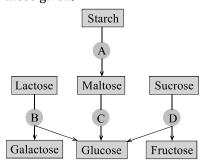
a) Vitamin-B₁ b) Vitamin-B₃ c) Vitamin-B₂ d) Cyanocobalamin

) D	s of food?
a) Proteins	b) Cereals
c) Fats and it derivatives	d) All of these
212. The pH of the digestive juices varies in human intes	tine. What does it means?
a) Medium is slightly acidic	b) Medium is slightly basic
c) Medium varies from acidic to basic	d) Neither basic nor acidic
213. In human body, the role of bile salts in digestion is	50
a) Act as coenzymes during the digestion of	b) Emulsify fats and facilitate their absorption
carbohydrates	
c) Aid in the break-up of proteins into amino acids	d) Stimulate the pancreas to release its enzymes
and their absorption	
214. When breast feeding is replaced by less nutritive fo	od low in proteins and calories; the infants below the
age of one year are likely to suffer from	
a) Marasmus b) Rickets	c) Kwashiorkor d) Pellagra
215. Read the following statements regarding the digest	
a) Oesophagus passes through neck, thorax and dia	
b) Stomach is located in the upper right portion of t	-
c) Stomach, a J-shaped organ is the longest organ o	-
d) Caecum, a small blind sac is a part of small intest	
216. Which part of the small intestine absorb iron, calciu	
a) Duodenum b) Jejunum	c) Ileum d) Both (a) and (b)
217. Which of the following is called as a detritivore?	
a) An animal feeding on decaying organic matter	b) An animal feeding on a plant
c) A plant feeding on an animal	d) An animal feeding on another animal
218. Bile salts help in	
a) Digestion of fat	b) Digestion and absorption of fat
c) Digestion of protein	d) Digestion of protein and fat
219. Go through the following statements regarding the	
true or false then choose the correct option accordi	ngry
I Absorption of managagharidas alsohal sama ur	stor and modicines like acryin accurs in the stomach
	ter and medicines like asprin occurs in the stomach
II. Fatty acids cannot be absorbed directly	•
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph dire	ectly
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph dire IV. Maximum absorption of water (90%) takes place	ectly e in the small intestine
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph dire IV. Maximum absorption of water (90%) takes place V. Large intestine and mouth are not the site of absorption.	ectly e in the small intestine
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph dire IV. Maximum absorption of water (90%) takes place V. Large intestine and mouth are not the site of absorption of I, II and IV are true while III and V are false	ectly e in the small intestine
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph dire IV. Maximum absorption of water (90%) takes place V. Large intestine and mouth are not the site of absorption a) I, II and IV are true while III and V are false b) I, II, III are true while IV and V are false	ectly e in the small intestine
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph directly IV. Maximum absorption of water (90%) takes place V. Large intestine and mouth are not the site of absorption a) I, II and IV are true while III and V are false b) I, II, III are true while IV and V are false c) II, III and IV are false while I and V are true	ectly e in the small intestine
II. Fatty acids cannot be absorbed directly III. Glycerol can reach into the blood and lymph directly IV. Maximum absorption of water (90%) takes place V. Large intestine and mouth are not the site of absorption a) I, II and IV are true while III and V are false b) I, II, III are true while IV and V are false c) II, III and IV are false while I and V are true d) I and II are false while III, IV and V are true	ectly e in the small intestine orption
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a) Unstriped muscle of muscular coat	b) Visceral peritoneum	
c) Meissner's plexus of submucosa	d) Epithelium layer of mucosa	
224. Which combination is mismatched?		
a) Vitamin- D-Rickets b) Thiamine- Beri-beri	c) Vitamin-K-Sterility	d) Niacin-Pellagra
225. Curdling of milk in small intestine takes place due to)	
a) Trypsin b) Rennin	c) Ptyalin	d) Chymotrypsin
226. Pepsinogen is secreted by		
a) Chief cells b) Oxyntic cells	c) Mast cells	d) Parietal cells
227. Kupffer's cells are present in		
a) Liver b) Small intestine	c) Pancreas	d) Thyroid gland
228. Why the stool of a breast feeding baby is quite yellow	wish in colour?	
a) Due to undigested milk proteins		
b) Due to pouring of pancreatic juices into the duod	enum	
c) Due to the bile pigment of bile juices		
d) Due to the enzymes present in saccus entricus		
229. Food is masticated with the help of which part of tee	eth?	
a) Enamel b) Root	c) Dentine	d) None of these
230. Maltose gives rise to two molecules of		
a) Fructose b) Lactose	c) Glucose	d) Sucrose
231. Lipids, Which can be found in oil based salad dressi	ngs and ice cream, during o	ligestion are splitted into
a) Fatty acids and glycerol	b) Glycerol and amino ac	ids
c) Glucose and fatty acids	d) Glucose and amino aci	ds
232. Human dental formula is	>	
a) $I_{\frac{2}{2}} C_{\frac{1}{1}}^{\frac{1}{1}} Pm_{\frac{2}{2}}^{\frac{2}{1}} M_{\frac{3}{3}}^{\frac{3}{3}}$ b) $I_{\frac{1}{1}}^{\frac{2}{1}} C_{\frac{1}{2}}^{\frac{1}{2}} Pm_{\frac{2}{3}}^{\frac{2}{3}} M_{\frac{3}{3}}^{\frac{3}{3}}$	$\frac{1}{1} \frac{2}{1} \frac{2}{1} \frac{2}{1} \frac{3}{1} \frac{3}$	d) $\frac{1}{1} \frac{2}{C - Pm} = \frac{2}{M} = \frac{3}{M}$
	$\frac{1}{2}$ $\frac{1}{1}$ $\frac{1}{2}$ $\frac{1}{3}$	$\frac{1}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{3}$
233. Chief cells of gastric glands are		
a) Simple tubular b) Coiled tubular	c) Branched tubular	d) Compound tubular
234. Which one of the following vitamin is water soluble		
a) Vitamin-C b) Vitamin B ₁	c) Vitamin-P	d) Vitamin-B ₉
235. Thiamine (B_1) deficiency results in		
a) Wernicke's syndrome	b) Korsakoff's syndrome	
c) Osteonecrosis	d) Tunnel vision	
236. Which is the correct sequence of 4 layers of aliments	ary canal from periphery to	centre?
a) Muscularis → Serosa → Mucosa → Submucosa		
b) Serosa → Mucosa → Muscularis → Submucosa		
c) Serosa → Muscularis → Submucosa → Mucosa		
d) Serosa → Mucosa → Submucosa → Muscularis		
237. Which part of our body secretes the hormone secret		
a) Ileum b) Stomach	c) Duodenum	d) Oesophagus
238. Which of the following does not play a role in blood	-	
a) Vitamin-K b) Vitamin-D	c) Calcium ions	d) Fibrinogen
239. Which of the following is an organic molecule neede		
a) Protein b) Zinc	c) Vitamin-C	d) Monosaccharide
240. In human beings, digestion of proteins, fats and carb	ohydrates starts from whi	ch of the following parts of
the alimentary canal?		
a) Stomach, intestine and mouth, respectively	b) Only from stomach	
c) Intestine, stomach and mouth, respectively	d) Only from intestine	
241. Continuous bleeding from an injured part of body is		n
a) Vitamin-A b) Vitamin-B	c) Vitamin-K	d) Vitamin-E
242. Which one of the following pairs of food component	s in humans reaches the st	omach totally undigested?

		Opius Luacation
a) Protein and starch b) Starch and fat	c) Fat and cellulose	d) Starch and cellulose
243. Which enzymes are responsible to convert the end	product of partially hydro	lysed food into simple
absorbable forms?		
a) Enzymes of succus entericus	b) Proteolytic enzyme o	f pancreatic juice
c) Enzyme of gastric juice	d) All of the above	
244. The process of digestion starts from		
a) Stomach b) Oesophagus	c) Mouth	d) Intestine
245. The process by which absorbed food are utilised by	y the tissues in the living be	eing for energy, growth and
maintenance is termed as		
a) Absorption	b) Assimilation	
c) Catabolism	d) Digestion and absorp	tion
246. Opening of oesophagus into 'J'-shaped, bag-like str		
a) Pyloric sphincter	b) Sphincter of oddi	
c) Ileocaceal sphincter	d) Gastro oesophageal s	
247. Which of the following part in cow's stomach is spe	_	
a) Rumen b) Reticulum	c) Abomasum	d) Both (a) and (b)
248. Which of the following processes will be affected b		
a) Lipid → Fatty acid + Glycerol	b) Dipeptides → Amino	acid
c) Proteases → Dipeptide	d) Amylase → Maltose	
249. A large lymph vessel present in the villus of small i		
a) Crypts b) Lacteal	c) Peyer's patches	d) Valve of kerkring
250. Most abundant mineral of animal body is		D. C. L.
a) Iron b) Sodium	c) Potassium	d) Calcium
251. Taste buds are present on		
a) Small projection found on the upper surface of t	=	
b) Small projection found on the lower surface of t	ongue	
c) On both the surface of tongue	0.077.011	
d) Behind the tongue 252. The malnutrition disease in man is	CAHON	
252. The malnutrition disease in man is	12 774 6 1 1 1	
a) Cri-du-chat syndrome	b) Klinefelter's syndrom	ie
c) Potbelly syndrome	d) Edward's syndrome	.1
253. As you know that HCl is highly acidic (1.5 to 2.0 pH	l) in the stomach, however,	the epithelium of the
mucosa remains unaffected/undissolved. Why?	L) D' - l	to the constant of the constant
a) Mucous continues to lubricate the inner lining	=	in the gastric juices protect
	the linings	
c) Both (a) and (b)	d) None of the above	manuful Com D. Classes
254. Digestion of starch starts from the mouth, whereas		on mainly forB Choose
the correct combination of options to complete the	-	
a) A-stomach; B-protein	b) A-stomach; B-starch	4
c) A-small intestine; B-protein	d) A-small intestine; B-s	tarcn
255. The fat soluble vitamin is) <i>I</i> //	DII
a) B b) C	c) K	d) H
256. The main function of lacteals in the human small in	-	
a) Glucose and vitamins	b) Amino acids and gluc	
c) Water and vitamins	d) Fatty acids and glycer	roi
257. What is frenulum?	7 C 1 '.	
a) It is the fold by which tongue is attached to the f	•	
b) It is an adenoid which is present on pharyngeal		
c) It is a tonsil like structure on the lateral wall of p		
d) It is a V-shaped furrow which divides the surfac	e or tongue	

258. The following is a scheme showing the fate of carbohydrates during digestion in the human alimentary canal. Identify the enzymes acting at stages indicated as A, B, C and D. Choose the correct option from those given.



- a) A-Amylase, B-Maltase, C-Lactase, D-Invertase
- b) A-Amylase, B- Maltase, C-Invertase, D-Latcase
- c) A-Amylase, B-Invertase, C-Maltase, D-Lactase
- d) A-Amylase, B-Lactase, C-Maltase, D-Invertase
- 259. Deamination occurs in
 - a) Kidney
- b) Liver

- c) Nephron
- d) Both (a) and (b)

- 260. Vitamin-D is produced in human body in
 - a) Muscles
- b) Nerves
- c) Skin

- d) Bone-marrow
- 261. The diagram given below depicts the digestive system in humans. Label it from A to F and choose the correct option accordingly



- a) A-Parotid gland, B-Liver, C-Larynx, D-Pancreas, E-Transverse colon, F-Caecum
- b) A-Parotid gland, B-Gall bladder, C-Pharynx, D-Pancreas, E-Transverse colon, F-Caecum
- c) A-Parotid gland, B-Liver, C-Pharynx, D-Pancreas, E-Ascending colon, F-Caecum
- d) A-Parotid gland, B-Gall bladder, C-Thymus, D-Pancreas, E-Ascending colon, F-Caecum
- 262. Chymotrypsin is produced by
 - a) Liver

- b) Pancreas
- c) Stomach
- d) Duodenum

- 263. Dental formula of rabbit is
- a) $I\frac{2}{1}C\frac{0}{0}Pm\frac{3}{2}M\frac{3}{3}$ b) $I\frac{1}{2}C\frac{0}{2}Pm\frac{2}{0}M\frac{3}{3}$ c) $I\frac{1}{2}C\frac{0}{2}Pm\frac{3}{0}Pm\frac{3}{3}$ d) $I\frac{2}{2}C\frac{1}{1}Pm\frac{2}{2}M\frac{3}{3}$

- 264. Vitamin-B₁₂is available to ruminants by
 - a) Plants

b) Microorganisms in caecum

c) Animals

- d) All of the above
- 265. Which of the following enzymes carries out the initial step in the digestion of milk in humans?
 - a) Rennin
- b) Lipase
- c) Trypsin
- d) Pepsin

- 266. Process of absorption of nutrients is carried out by
 - a) Passive transport
- b) Facilitated transport
- c) Active transport
- d) All of the above

- 267. Part of bile juice useful in digestion is
 - a) Bile salt
- b) Bile pigment
- c) Bile matrix
- d) All of these

268. Bile helps in the digestio	n of fat through		
a) Emulsification	b) Alkalinity	c) Forming micelles	d) All of these
269. Which hormone is also k	nown as Gastric Inhibitory	Peptide (GIP)	
a) Enterokinase		b) Enterogastrone	
c) Cholecystokinin		d) Vasoactive intestinal I	Peptide (VIP)
270. Salivary amylase is also l	known as		
a) Ptyalin	b) Gastrin	c) Glyoxylase	d) Pepsin
271. Choose true and false sta	tements regarding the dige	estive glands of humans	
I. It is a compound gland	as it posseses both exocrin	e and endocrine parts	
II. Exocrine parts secrete	es alkaline pancreatic juices		
III. Endocrine part secre	tes hormones like insulin a	nd glucagon	
IV. They are surrounded	by glisson's capsule		
V. Secretion of these gla	nd's forms gastric juices		
Pick the correct option a	ccordingly		
a) I, II, III are true while	IV and V are false	b) I, II, III are false while	IV and V are true
c) All statement are true		d) All statement are false	
272. The deficiency of this vit	amin is known to cause abo	ortion in early pregnancy o	f rat?
a) Retinol	b) Calciferol	c) Tocopherol	d) Naphthoquinone
273. Starch is converted to ma	altose by the action of		
a) Invertase	b) Amylase	c) Sucrose	d) Maltase
274. What is the correct label	ling of diagram given belov	v? Choose the correct optio	n accordingly
D			
		>	
B	. 1		
o o			
a) A-Fundic portion, B-C	ardiac region, C-Pyloric reg	ion, D-Food pipe, E-Wind r	oine
· · · · · · · · · · · · · · · · · · ·	egion, C-Cardiac region, D-(T
	rdiac region, C-Pyloric regi		enum
-	yloric region, C-Fundic regi		
275. Go through the following	_		
	propriate option from the o	· ·	Joseph directe the correct
-	y the poor supply of digesti	•	riety and a lot of junk food
_	ular movement of bowl is c		- · · · · · · · · · · · · · · · · · · ·
stress and certain drugs	alai movement of bowl is e	auseu due to poor nubits, n	beriess area, emotionar
	used by milk of magnesia		
<u> </u>	ontent is controlled by hyp	othalamus of prosencephal	on
a) All statements are cor		b) All statements are inc	
c) I and II statements are		d) III and IV statements a	
276. Which of the following is		•	
a) I 2/2, C 1/1, Pm 2/2, I		b) I 2/2, C 1/1, Pm 2/2, N	
c) I 1/1, C 2/2, Pm 2/2, I	-	d) I 2/2, C 2/2, Pm 1/1, M	
277. Kupffer's cells are	1 5/ 5	uj 1 2/2, 0 2/2, 1 III 1/1, 1	13/3
a) Phagocytic	b) Non-phagocytic	c) Myosin	d) Fibrin
278. In which of the following		•	
-	dase, nucleosidases, nucleo		
a) Pancreatic juices	b) Intestinal juices	c) Gastric juices	d) Both (a) and (b)
279. Liver of man is	oj micomai julces	ej dastrie juices	aj bodi (a) alia (b)
a) Bilobed	b) Three-lobed	c) Four-lobed	d) Five-lobed
280. By which process, the en			
-co. by winch process, the ch	a produces or mink sugar m	oman meedine are about b	· · · ·

a) Passive transport b) Active transport	c) Facilitated transport	d) Osmosis
281. Success entericus is secreted by		
a) Crypts of Leiberkuhn b) Brunner's glands	c) Both (a) and (b)	d) None of these
282. The gastrointestinal functions like, secretion and mo	-	-
a) Intrinsic neural system	b) Extrinsic neural system	n
c) Both (a) and (b)	d) None of the above	
283. Complete the equation.		
Nucleic acids — Nucleotides → · · ·		
a) Monoglycerides b) Diglycerides	c) Disaccharides	d) Nucleosides
284. Pulp cavity of teeth is lined by	,	,
a) Odontoblast b) Chondroblast	c) Osteoblast	d) Amyloblast
285. What is gastroporesis?	,	, ,
a) Inflammation of the lining of the stomach		
b) Stomach content flows back up into the oesophag	gus	
c) Delayed movement of food from the stomach to t		
d) Bleeding in the digestive tract		
286. The gastric juices contain		
a) Trypsin, rennin, pepsin	b) Pepsin, trypsin, amylas	se
c) Pepsin, rennin, carbohydrates	d) Pepsin, lipase, rennin	
287. The sphincter of Oddi found in man, guards the	, - op,p,	
a) Pancreatic duct	b) Hepatopancreatic duct	<u>-</u>
c) Bile duct	d) Cystic duct	
288. Which of the following is the largest gland in an adu		
a) Thymus b) Liver	c) Thyriod	d) Pancreas
289. Go through the following statements regarding the a		
statements and choose an option accordingly from t		
I. Micelles and chylomicron are concerned with the	_	
II. Chylomicrons are water soluble dropelets of fat w		sterol and phospholipids
III. Micelles are water soluble droplets of fatty acids		• • •
pigments on fats and glycerol	and gry corons winter are re-	med by the dedon of she
IV. Chylomicron, protein coated small vesicles are re	eleased from the intestinal o	cells into the blood stream
by lacteals	readed if our the intestinal v	
a) II and IV are correct while I and III are incorrect	b) I, III and IV are correct	while II is incorrect
c) I, II and IV are correct while III is incorrect	•	ile II and III are incorrect
290. Wilson's disease is associated with the abnormal me	•	me ii ana iii are meorreet
a) Iron b) Potassium	c) Iodine	d) Copper
291. Rennin is secreted in which part of alimentary canal	-	u) dopper
a) Stomach b) Kidney	c) Duodenum	d) Small intestine
292. Cud chewing animals are known as	c) buodenam	a) Sman meesune
a) Frugivorous b) Sanguivorous	c) Ruminants	d) Cannibals
293. Which component of gastric juices inactivates saliva	-	u) Callillbais
a) Mucous b) Rennin	c) CCl	d) Pepsin
294. The abnormal frequent movement of the bowl and i	•	
a) Vomiting b) Indigestion	c) Constipation	d) Diarrhoea
295. Gastrointestinal hormones secretion and cholecysto		
stimulation and contraction of	killili secreted by duodella	iii is responsible for the
	h) Liver gall bladder and	nancreac
a) Pancreas and gall bladder	b) Liver, gall bladder and	
c) Gall bladder and cells of gastric glands	d) Salivary glands and ga	ii biauuei
296. Which combination of vitamin and respective diseas a) Vitamin B ₂ – Pellagra	se is not correct? b) Vitamin B ₁₂ – Pernecio	oue anaomia

c) Vitamin B ₅ – Der	rmatitis	d) Vitamin-E – Inferti	lity	
297. Which of the follow	ing can be absorbed by hepa	ntic caeca?		
a) Glucose and ami	no acid	b) Glucose and lipid		
c) Lipid		d) Glucose	d) Glucose	
298. The process of resy	nthesis of food materials fro	m simpler food molecules is	s called	
a) Biosynthesis	b) Catabolism	c) Absorption	d) Assimilation	
	-		nitiates the feeling of defecatior	
due to				
a) Defecation reflex		b) Deamination		
c) Irregular movem		d) None of the above		
300. Pepsin is inactivate		a, mane er une abeve		
a) Below 3	b) Below 2	c) Above 5	d) Above 3	
	is absorbed into the intestina	-	a) Hoove 5	
a) Micelles	b) Chylomicrons	c) Fatty acids	d) Both (a) and (b)	
•	on found in human being is	cy racty acids	a) Both (a) and (b)	
a) Polyphyodont, th	_	b) Diphyodont and th	ecodont	
c) Diphyodont and		d) Diphyodont and ho		
	llowing equation match cori			
	end product of the reaction?	ectif with the action of chiz	ymes on the given substrate	
		1.)	Pepsin	
a) Stomach \rightarrow Fats	— Micelles		Protein Pepsin Amino acid	
c) a ni i ii	→ Starch amylase → Disacchari	des d) Duodenum → Trig	glycerides $\xrightarrow{\text{Trypsin}}$	
c) Small intestine –	→ Starch ——— Disacchari	des Wonoglycerides		
304. Bile juice is stored i	n which organ of human boo			
a) Gall bladder	b) Liver	c) Kidney	d) Pancreas	
305. Secretin hormone is		, ,		
	nulates gastric gland	b) Duodenum and stir	mulates liver	
	nulates thyroid gland	d) Duodenum and sti		
			all bladder. Label the diagram	
from A to C			S	
A(
LIL				
В				
O The second	c			
	_D			
) A C 1111 11 P		1		
	-Common bile duct, C-Hepat	=		
	-Bile duct, C-Hepato pancre			
•	B-Bile duct, C-Pancreatic duct			
	-Common bile duct, C-Pancr	eas, D-Pancreatic duct, E-He	epato pancreatic duct	
307. Hydrolysis of milk s				
a) Two molecules o				
b) Two molecules o	_			
	glucose and one molecule of			
-	glucose and one molecule of	_		
			rength and growth of bones?	
a) Vitamin-D, Ca ²⁺		b) Vitamin-D, Ca ²⁺ an		
c) Vitamin-D, Ca ²⁺		d) Vitamin-A, Ca ²⁺ an		
	g sodium glycocholate is rele			
a) Secretin	b) Cholecystokinin	c) Enterogasterone	d) Enterocrinin	

310. Which is the largest gland of human body?		
a) Gastric gland b) Pancreas	c) Liver	d) Salivary gland
311. Seggregate the following statements into true	e and false category. Choose th	e right answer from the codes
given below		
I. Mucosal epithelium has goblet cells which s	secrete mucous and helps in lu	brication
II. Mucosa forms gastric glands in the stomac	ch and crypts in between the ba	ases of villi in intestine
III. Cells lining the villi has brush border or m	nicrovilli	
IV. All the four basic layers in the wall of gut i	never shows modification in di	fferent parts of the alimentary
canal		
a) All the statements are correct	b) I, II and III are true	while IV is false
c) I, II and III are false while IV is true	d) I, IV and false, whil	
312. The diagram below shows how things get to		
Which one of the following labellings is the co		
P ≱ Blood to heart		
F		
Liver		
arry m		
Gall bladder		
Blood to heart		
8 Pancreas		
	_	
() 1/2 0 ()		
4	At P	
a) A is the hepatic portal vein and E is the he	- 1 Table 1 Ta	
b) C is the intestine and F is the hepatic porta		
c) D is the hepatic portal vein and F is hepation		
d) B is the pancreatic artery and E is the hepa		
313. Which of the following is/are essential fatty a	of their than 1970, it is to be the time	
a) Arachidonic acid b) Linolenic acid	c) Linoleic acid	d) All of these
314. Chloragen cells help in		
a) Respiration b) Reproduction	c) Circulation	d) Nutrition
315. What is the function of buccal cavity?		
a) Mastication of food b) Digestion of fat	s c) Both (a) and (b)	d) None of the above
316. Carboxypeptidase is an enzyme secreted by		
a) Salivary gland b) Stomach	c) Gall bladder	d) Pancreas
317. In which of the following organ, putrefying ba	acteria are present?	
a) Intestine b) Colon	c) Stomach	d) Liver
318. For how much duration, food is stored in the	stomach?	
a) 3-4 hours	b) 2-4 hours	
c) 4-5 hours	d) More than 5 hours	but less than 6 hours
319. If for some reason our goblet cells are non-fu	ınctional, this will adversely afl	fect
a) Production of somatostatin	•	
b) Secretion of sebum from the sebaceous gla	ands	
c) Maturation of sperms		
d) Smooth movement of food downwards the	e intestine	
320. Wisdom teeth are		
a) Last molars b) Last premolars	c) Incisors	d) Canines
321. By which process, absorption of galactose, ele	-	
a) Active process b) Passive process		d) Osmosis
322. Angiotensinogen is a protein produced and so		,

Gplus Educationb) Endothelial cells (cells lining the blood vessels)

a) Macula densa c	ells	b) Endothelial cells (d	cells lining the blood vessels)	
c) Liver cells		d) Juxtaglomerular (JG) cells		
323. Both the crown an	d root of a tooth is covered	by a layer of bony hard subst	ance called	
a) Enamel	b) Dentine	c) Bony socket	d) Cement	
324. A balanced diet la				
a) Nucleic acid and	d enzyme	b) Fats and carbohyd	rates	
c) Proteins and vi	tamins	d) Minerals and elect	d) Minerals and electrolytes	
325. Brown colour of the	ne stool is due to the presen	ce of stercobilinogen and ster	cobilin, which are the	
derivatives of				
a) Bilirubin	b) Biliverdin	c) Bile salt	d) Bile pigment	
-	of water, alcohol and monos			
a) Gastric mucosa		b) Mucosa of ileum		
c) Intestinal muco		d) Through out epith		
	-	erated from the intestinal wa	ll into the lymph present in the	
lymphatic capillar				
a) Micelles	b) Chylomicrons	c) Fatty acids	d) Both (a) and (b)	
	_	ation of blood in the human c	irculatory system?	
	ells of gastric epithelium			
	n the upper right side of abo			
	of endocrine part of the pand			
d) Brunner' gland,	present in the duodenum o	f intestine		
329. Sphincter of oddi	found in human being guard	ls		
	oula into duodenum			
	atic ducts before joining the	cystic duct		
·	nach into duodenum			
	ic duct into pancreatic duct			
	iagram represents the gastr	ric glands. Label it from A to D	and choose the correct option	
accordingly	GPLUS ED	UCATION		
	OLTO2 FD	OCHILOIT		
A A				
B				
• •	3-Chief cell, C-Mucous cell, D	•		
, ,	ell, B-Oxyntic cell, C-Mucous			
	f cell, C-Mucous cell, D-Arge			
•	B-G cell, C-Mucous cell, D-Ch			
•	_	al forms numerous finger-lik	e projections in the small	
intestine which ar	e known as			
a) Villi	b) Rugae	c) Peyer's patches	d) Both (a) and (b)	
332. The major site of p		free amino acids is in the envi	ronment of	
a) Kidney	b) Spleen	c) Liver	d) Bone-marrow	
	n equation and choose the c	orrect option accordingly		
Milk protein Rennin				
	B			
C Pepsin	Calcium paracaesinate			
a) A-Caesin, B-Ca ²	+ C-Pentones	b) A-Ca ²⁺ . B-Pentone	s C-Caesin	

c) A-Paracaesin, B-Ca ²⁺ , C-Peptones	d) A-Ca ²⁺ , B-Paracaesin,	C-Peptones		
334. In the homeostatic control of blood sugar level, wh				
effector?				
a) Liver and islets of Langerhans	b) Hypothalamus and liv	rer		
c) Hypothalamus and islets of Langerhans	d) Islets of Langerhans a			
335. Symbiotic bacteria present in the colon of large into	•	J F		
a) Cyanocobalamin b) Riboflavin	c) Thiamine	d) All of these		
336. Major site of absorption of nutrients in human bein	•	,		
a) Stomach b) Small intestine	c) Large intestine	d) Both (a) and (b)		
337. Bile secretion is proportional to the concentration		u) 20 u. (u) u (2)		
a) Protein b) Fat	c) Carbohydrate	d) None of these		
338. In which part of the small intestine, starch is digest		a) None of these		
a) Duodenum b) Jejunum	c) Ileum	d) All of these		
339. Find out the correctly matched pair.	c) neum	a) mi or mese		
a) Pepsinogen - Zymogenic cells	b) HCl -	Goblet cells		
c) Mucus - Oxyntic cells	,	Salivary glands		
340. In which layer of the wall of alimentary canal, secre	*	Salival y glalius		
a) Serosa b) Mucosa	c) Muscularis	d) Cubmusass		
,	,	d) Submucosa		
341. Consider the following statements regarding the di the correct and incorrect statement	gestion and absorption of i	ood in numan and identify		
	and in mills wast made la	africia antalela and cultala		
I. Antipellagra vitamin is nicotinamide which is pre	sent in miik, yeast, meat, ie	ary vegetable and whole		
grains		Cotton and an at 1		
II. Deficiency of vitamin thiamine causes loss of app	betite, muscle depreciation,	ratigue and mental		
confusion				
III. Prolonged deficiency of tocopherol reduces rep				
IV. Gastrovascular cavity performs, i.e., both functi	on digestion and distribution	on of nutrients		
Choose the correct option accordingly	0.0.000.000.00			
a) All statements are incorrect	b) All statements are cor			
c) I and II are correct only				
342. What do you mean by the absorption of food?				
a) It is a process by which the end products of the o	digestion passes through th	e intestinal mucosa into		
blood or lymph				
b) It is a process of transportation of digestive food from the human alimentary canal to blood and lymph				
c) It is a process to utilise the absorbed food substances				
d) Absorption is a process by which nutrients are absorbed from the large intestine into the blood and				
lymph through its mucous membrane				
343. Name that part of small intestine in which the pylor	ric region of stomach opens	3		
a) Duodenum b) Ileum	c) Jejunum	d) None of the above		
344. Secretion of gastric juice is controlled by				
a) Gastrin b) Cholecystokinin	c) Enterogastrin	d) None of these		
345. How many salivary glands are present in human be	eing?			
a) 6 b) 10	c) 8	d) 12		
346. Which one is not a part of large intestine?				
a) Rectum b) Caecum	c) Ileum	d) Colon		
347. The lactase hydrolyses lactose into				
a) Glucose	b) Glucose and galactose	!		
c) Fructose	d) Glucose and fructose			
348. What is cholecystokinin?				
a) Enzyme	b) Bile-pigment			
c) Gastro- intestinal hormone	d) Lipid			

349. Identify wheather the given statements are true or fa	alse in the context of defici	ency of essential amino		
I. Incomplete break down of proteins in the digestive	e system			
II. Deregulation of mood and sleep				
III. Increased production of sulphur				
IV. Decreased amount of niacin				
a) I – True	b) I – True			
II – True	II – True			
III – False	III – True			
IV – True	IV - False			
c) I – False	d) I – True			
II – True	II – False			
III – True	III – False			
IV - False	IV – True			
350. Which of the following symptoms is related to the de	eficiency of antioxidant vita	imins?		
a) Retrolental fibroplasia	b) Truncal and limb atoxia			
c) Scurvy	d) All of these			
351. Which one is not associated with the secretion of sal	iva in human being?			
a) Paratoids glands	b) Sublinguals glands			
c) Zymogenic cells	d) Sub-maxillary glands			
352. In intestine, food materials are absorbed through				
a) Villi b) Subtentacular cells	c) Sub-mucosa	d) Gastric glands		
353. Chymotrypsinogen, trypsinogen and nucleases along	g with amylases and lipases	are		
a) Inactive forms of enzyme in gastric juices	b) Active enzymes of inte	stinal juices		
c) Inactive enzymes of pancreatic juices	d) Active enzymes of inte	stinal juices		
354. Choose the most appropriate option to describe the	composition of human sali	<i>v</i> a		
a) Amylase, hydrolase) Amylase, hydrolase b) Electrolytes amylase/ptylin, lysozymes and			
(would FDU)	mucous			
c) Amylase/ptylin, mucous	d) Ptylin only			
355. Production of glucose from amino acids, fatty acids a				
a) Glycogenesis b) Gluconeogenesis	c) Glycogenolysis	d) Glycolysis		
356. With reference to a normal human being, which one	=			
a) Human saliva is slightly alkaline	b) An adult human may secrete 1 to 1.5 litres of saliva per day			
c) Saliva is secreted by six pairs of salivary glands in	d) The salivary enzyme (1	otyalin) breaks down		
human beings	cooked starch into mal	tose		
357. Which vitamin should not be stored?				
a) Calciferol b) Retinol	c) Niacin	d) Ascorbic acid		
358. Which of the following match is correct?				
a) Rennin – Protein b) Trypsin – Starch	c) Invertase – Sucrose	d) Amylase – Lactose		
359. Which one of the following amino acids is an essentia	al part of human diet?			
a) Glycine b) Phenylalanine	c) Serine	d) Aspartic acid		
360. Sacculus rotundus is a dilated part at posterior end o	of			
a) Ileum b) Oesophagus	c) Ilium	d) Colon		
361. Which of the following is absorbed from undigested	food in the large intestine?			
a) Water and vitamins	b) Water and product of b	pacterial digestion		
c) Water and salt	d) Water and alcohols			
362. Which one of the following sequence is in correct order?				
a) Descending portal colon \rightarrow Rectum \rightarrow Anus	b) Colon \rightarrow Anus \rightarrow Rectu			
c) Stomach → Jejunum → Duodenum	d) Ileum → Colon → Caeco	um		

363. Which enzyme is responsible for the digestion of milk in infants? a) Pepsin b) Trypsin c) Rennin d) Various proteolytic enzyme 364. Which one statement is incorrect regarding the process of digestion and absorption in humans? a) Small intestine is the major site for the absorption of all nutrients b) Around 40% of the total absorption of nutrients takes place in the proximal part of the small intestine c) Drugs, alcohols, little water and salt are absorbed in the stomach through the mucous membrane d) Large intestine is the site of absorption for water and products of bacterial digestion 365. Deficiency of which vitamin causes type 1 and type 2 diabetes? a) Vitamin-B b) Vitamin-A c) Vitamin-D d) Vitamin-K 366. Which of the following is a water soluble vitamin? b) Vitamin-B c) Vitamin-D d) Vitamin-E a) Vitamin-A 367. Which one of the following pairs of the kinds of cells and their secretion are correctly matches? - A secretion with pH b) Alpha cells of islets - Secretion that decreases a) Oxyntic cells Between 2.0 And 3.0 blood sugar level of Langerhans d) Sebaceous glands - A secretion that evaporates c) Kupffer's cells - A digestive enzyme that hydrolyses nucleic acids for cooling 368. Digestion is accomplished by a) Mechanical and chemical processes b) Chemical processes only d) None of the above c) Mechanical processes only 369. Argentaffin may arise in a) Pancreas b) Bile duct d) None of these c) Gastro-intestinal tract 370. Prolonged deficiency of thiamine in human diet may lead to a) Pellagra b) Beri-beri c) Anaemia d) Haemorrhage 371. Which action of digestive enzyme is/are correct regarding its site of action, substrate and the end product? End Enzy Site of Sub product me Action strate

i	Renni n	Calf's stomac h	Casei n	Ca Parac aesinat e
ii	Pepsin	Human' s stomac h	Prote ins	Two or more mole cule of
				a mino acid
iii	Nucl	Small	Nucle	Nucleo
	ease	intes	О	sides a
		tine	sides	nd -
				iPO ₄
iv	Entero	Small	Tryps	Trypsin
	-	intes	i	
	kinase	tine	nogen	

a) All actions are correct

b) Actions I, II and III are correct

c) Action I, II and IV are correct

- d) Only action III is correct
- 372. Continued consumption of a diet rich in butter, red meat and eggs for a long period may lead to
 - a) Vitamin-A toxicity

b) Kidney stones

c) Hypercholesterolemia

d) Urine laden with ketone bodies

373. Which one is a disorder of overnutrition?

	a) Kidney and gall bladder stone	b) Scurvy and osteomalacia				
	c) Hypercholesterolemia and fluorosis	d) Vitamin-A toxicity and urine laden with ketone bodies				
374	The epithelial cells lining the stomach of vertebrates is protected from damage by HCl because					
	a) Hydrochloric acid is too dilute	b) The epithelial cells are HCl				
	c) HCl is neutralized by alkaline gastric juice	d) The epithelial cells are secretion	covered with a mucous			
375	. In rabbit, the digestion of cellulose takes place in					
	a) Colon b) Ileum	c) Caecum	d) Secretin			
376	. Read carefully the following statements regarding th					
	statements and choose the correct option from the given below codes					
	I. Absorption of carbohydrates takes place in the stor		ntestine			
	II. The water soluble end products of food can reach	· · · · -				
	III. Large intestine and buccal cavity do not functions		9			
	IV. Large intestine is the site of absorption of about 9		ent in the hydrolysed food			
	Codes	o , , or one count words pros				
	a) I, III and IV are incorrect	b) I, II and IV are incorrec	t			
	c) I and II are incorrect	d) III and IV are incorrect				
377	. Which of the following is correct chronological order	=				
0,,	protein digestion?	Tor engine delivity or son	ie enzymes taming part in			
	a) Pepsin → Trypsin → Peptidase	b) Pepsin → Peptidase→ T	rvnsin			
	c) Trypsin → Pepsin→ Peptidase	d) Peptidase→ Trypsin→ l				
378	. Vitamin-C is present as	a) reputation rijponi r	Сорон			
0,0	a) Oxalic acid b) Glutamic acid	c) Ascorbic acid	d) Citric acid			
379	. Deficiency of which vitamin, causes loss of appetite, 1	-				
0,,	a) Vitamin-K b) Vitamin-C	c) Thiamine	d) Riboflavin			
380	. Treatment with alloxan destroys	ATION	u) 1.1.501.4111			
	a) STH cells	b) Alpha cells of islets of L	angerhans			
	c) Beta cells of islets of Langerhans	d) Cells of Leydig				
381	. Which one is not true about vitamins?	ay come or hey ang				
	a) Vitamins are organic catalysts	b) Vitamins are indispens	able for life			
	c) Vitamins act as a source of energy	d) Tocopherol is anti-steri				
382	. Enzyme present in saliva is	,	<i>y</i>			
	a) Maltase b) Ptyalin	c) Sucrase	d) Invertase			
383	. Which of the following is true for vitamin-C?	,	,			
	a) Also called as ascorbic acid	b) Also called as fumaric a	acid			
	c) Obtained from citrus fruits	d) Both (a) and (c)				
384	. The back flow of faecal matter in the large intestine i	, , , , ,	ce of			
	a) Epiglottis					
	b) Sphincter of Oddi					
	c) Ileo-caecal valve					
	d) Pyloric sphincter					
385	. Elephant tusks are					
	a) Molars b) Canines	c) Incisors	d) Premolars			
386	. Which of the following best describes the process of	=	•			
	a) A process to obtain necessary energy and growth substances					
	b) A process to obtain energy from foods					
	c) A process to supply the necessary nutritive element	nts to body				

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d) A sum total of processes which provides the necessary nutritive element for growth, maintenance and

to meet the need of energy

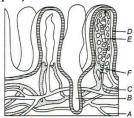
- 387. Name the process by which swallowed food is conveyed to pharynx and oesophagus respectively
 - a) Deglutition
- b) Peristalsis
- c) Ingestion
- d) Succus entricus

- 388. The vitamin, synthesized by bacteria is
 - a) B

b) D

c) K

- d) E
- 389. Label the given diagram of transverse section of mucosa of small intestine showing small finger like projections. Choose the correct option accordingly



- a) A-Vein, B-Crypt, C-Artery, D-Villi, E-Lacteal, F-Capillaries
- b) A-Artery, B-Crypt, C-Vein, D-Villi, E-Capillaries, F-Lacteal
- c) A-Vein, B-Artery, C-Crypt, D-Villi, E-Capillaries, F-Lacteal
- d) A-Villi, B-Lacteal, C-Capillaries, D-Artery, E-Crypt, F-Vein
- 390. Which of the following molecule can be digested by pancreatic juices?
 - a) Fat, protein and nucleic acids

b) Carbohydrates and proteins

c) Carbohydrates and fats

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d) All of the above

