2A2B HUMAN BIOLOGY DIGESTIVE SYSTEM TEST

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Name:	Answer Key	Teacher:		
Part one – multiple choice				
1.	Digestion begins in the mouth. Which of the following statements is INCORRECT?			
		n the digestion of food.		
		s some of the starches in the food to sugar.		
	d) Saliva can react m	the food in place in the mouth while the food is being chewed. nore easily with the food when chewed.		
2.	Our pharynx divides into two separate tubes: the trachea and the oesophagus prevents food from entering the trachea?			
	a) The uvula.			
	b) The tongue.			
	c) The trachea.			
	The epiglottis.			
3.	3. Where does the partly-digested food (in liquid form) go after it leaves the stomach?			
	a) The liver.			
	b) The appendix.			
	The small intestin	e.		
	d) The large intesting	e.		
4.	4. Digestion takes place in a long tube-like canal called the alimentary canal, or t tract. Food travels through these organs in the following order:			
	(a) Mouth, oesophag	us, stomach, small intestine, large intestine and rectum.		
		us, stomach, large intestine, small intestine and rectum.		
		oesophagus, small intestine, large intestine and rectum.		
	d) Mouth, stomach,	oesophagus, small intestine, large intestine and rectum.		
5.	Another term for swallowing of food is:			
	a) Digestion.			
	(b) Ingestion.			
	c) Deglutition.			
	d) Peristalsis.			

Part two - short answer

1. Write the dental formula for humans.

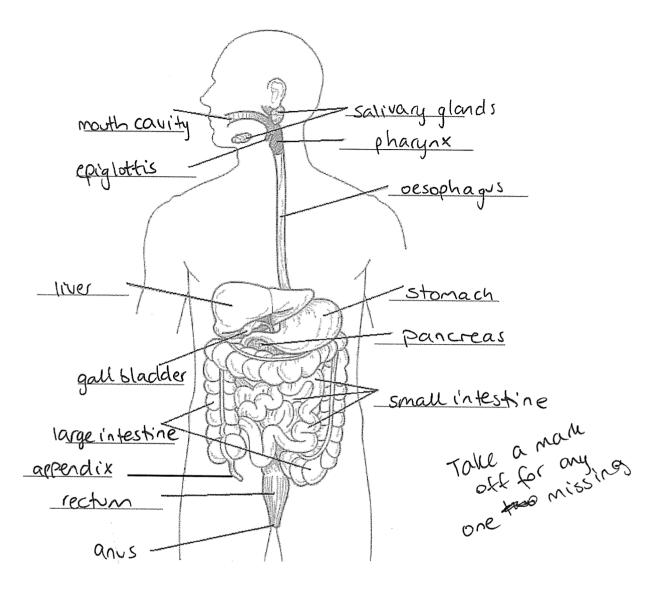
<u>i -</u>	2/2 C-1/1 P-2/2 M-3/3 = 16x2=37	WANTE CONTRACTOR OF THE CONTRA
2a.	What special substance does the liver produce?	(1 mark) (1 mark)
2b.	what does this substance do?	
		(1 mark)
2c.	Where is this substance stored? gall bladder	(1 mark)

3. Complete the table below.

Structure	Where they are found	Function
Circular and longitudinal muscle layers	whole digestive tract (stomach, besophagus, small & large intestines, nectur)	- moves food by peristalsis -churns food in stomach
Villi	Small intestine	increases surface area available for a bsorption
Goblet cells	small intestine	produces digestive enzymes
Mucus	Stomach Wall	stops stomach from digesting itself

(8 marks)

4. Label the diagram below.



(7 marks)

5. Explain what peristalsis is.

- progressive waves of contraction & relaxation of miscular tibe that pushes material along.

(2 marks)

6. Fill in the table below.

Name of enzyme	Where it is made	Where it is found (used)	What it acts on (substrate)	Product
Salivary amylase	Salivary gland	mouth	starch	disaccharides
Pancreatic lipase	pancreas	small intestine	fats & lipids	fatty acids glycerol
Pancreatic protease (trypsin)	pancreas	small intestine	protein	pephole Chains (polypephole)
Pancreatic amylase	parcieas	small intestine	starch	disaccharide
Gastric protease (pepsin)	spmach	stomach	protein	peptide chains (polypeptide)

(20 marks)

Part three – extended answer

1.	Vitamin D, vitamin C and Vitamin B1 are all important vitamins which your body needs to keep
	healthy. For each of these vitamins, state a deficiency disease caused by a lack of the vitamin,
	two symptoms of the deficiency and two food sources of the vitamin.

Mulitamin D	(10 marks) 15
- deficiency disease - Rickets (D	
-symptoms - soft bones, weak bones, en la	raed
joints, bowed limbs Any two	•
(2)	NAMES NA
-food source - Eggs, cood liver oil, any two (2) 5) <u> </u>
- Vitamin C	
	THE WAR EQUIENCE STORY OF THE S
- symptoms - sore gums, bleeding around bones	
- deficiency disease - swrvy () - symptoms - sore gums, bleeding around bones delayed healing of wounds (2)	any two
- Good source - citus fruits, tomatos, strawber	ries,
	Any tho
	<u></u>
- Vitamin Bl	
- deficiency disease - beri beri ()	
- symptoms - poor appetite, loss of weigh-	t, nausea
indigestion any 2 (2)	
- food source - whole grains, green vegetal, milk, meat, seafood, pou Anytho (2)	oles, Itry
7/1/1/C)	eren en e