The Pancreas

Read Chapter 17.6

Fill in the blanks

1.	The pancreas functions as both an endocrine and an exocrine gland. The			
	functions	s include releasing bicarbonate and enzymes into the small intestine duri	ng digestion	
	and the _	functions are when it releases hormones into the blo	odstream.	
2.		is the hormone that increases blood sugar.		
3.		is the hormone that decreases blood sugar.		
4.		cells produce insulin.		
5.		cells produce glucagon.		
6.	is the pancreatic hormone produced during fasting, stress, or exercise.			
7.		is the pancreatic hormone produced after eating.		
8.	Different	t foods stimulate different amounts of insulin secretion	foods	
	increase			
9.	High blood sugar above the normal range is called			
10.	. Low blood sugar below the normal range is called			
11.	1. In a blood sugar negative feedback loop, the integrating center is the			
12.	Insulin ca	auses excess nutrients to be stored as or or		
13.	13. Insulin stimulates cells to increase the production of			
	glucose t	to enter cells.		
14.	Excess glu	lucose can be stored as glycogen in the and	cells.	
15.	Write the	e correct process for each of the following: Lipogenesis, gluconeogenesis,	lipolysis,	
	glycogenesis, glycogenolysis			
	a. B	Breaking down fat		
	b. B	Breaking down glycogen		
	c. N	Making fat from sugar		
	d. N	Making glycogen from sugar		
	e. N	Making sugar from amino acids		
16.	People th	hat cannot produce insulin have an autoimmune disease called		
17.	People that have insulin resistance can develop type diabetes.			
18.	Which type of diabetes involves hyporesponsive cells?			

19. Bert feels hungry, is craving sugar, feels tired, shaky and anxious. He is most likely experienci			
(hyper or hypoglycemia)			
0. Gladys has been excessively thirsty, is having trouble losing weight, and frequently craves sug			
She is most likely experiencing (Hyper or hypoglycemia)			
21. Insulin resistance can be prevented with a moderate or low intake of			
22. List 3 possible complications of having long term high blood sugar:			
a			
b			
c			