Gilead Pathophysiology Sample Quiz 4 - Endocrine System and Diabetes

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1.	Insulin:					
	a. is secreted by the kidneys	c. stimulates the production of glycogen and fat				
	b. is secreted in response to decreased blood glucose	d. stimulates the release of glucose from cells				
2.	Which of the following best describes the interactions between insulin and glucagon?					
	a. synergistic	c. antagonistic				
	b. permissive	d. cooperative				
3.	Which of the following is true of diabetes mellitus?					
	a. cells starve of glucose	c. patients urinate frequently				
	b. blood is high in glucose	d. all of the above are true				
4.	Which of the following is NOT an action of insulin?					
	a. stimulates glucose uptake by cells	c. stimulates production of fat from glucose				
	b. stimulates glycolysis	d. stimulates glycogenolysis				
5.	Which of the following is NOT a mechan	e				
	a. hormonal control	c. erythrocyte control				
	b. neural control	d. humoral control				

Matching

Match the terms to their definition.

- ketones in urine a.
- b. excessive thirst

- c. excessive urine output
- d. faster breathing rate

- 6. polyuria
- 7. polydipsia
- 8. hyperpnea
- 9. ketonuria

Short Answer

10. Draw the negative feedback cycle that would occur if glucose levels in the blood increase, as they do after a meal. (3pts)

Organs/tissue involved	Organ/tissue responses to insulin deficiency	Resulting conditions:		Signs and symptoms	
organisiussue involveu		In blood In urine			
D 🙆 🥖	Decreased glucose uptake and utilization	Hyperglycemia	Α	с	
	Glycogenolysis		Osmotic diuresis	Polydipsia (and fatigue, weight loss)	
	Protein catabolism and gluconeogenesis			D	
	Lipolysis and ketogenesis	В	Ketonuria Loss of Na ⁺ , K ⁺ ; electrolyte and acid-base imbalances	Acetone breath Hyperpnea	
				Nausea/vomiting/ abdominal pain	
				Cardiac irregularities	
			deservice and the second	Central nervous system depression; coma	

11. Acute Complications of Low Insulin

Match the table blanks to the choices below.

_____ lipidemia and ketoacidosis

_____ glycosuria

_____ polyphagia

_____ polyuria

Gilead Pathophysiology Sample Quiz 4 - Endocrine System and Diabetes Answer Section

MULTIPLE CHOICE

1.	ANS:	С	PTS:	1
2.	ANS:	С	PTS:	1
3.	ANS:	D	PTS:	1
4.	ANS:	D	PTS:	1
5.	ANS:	С	PTS:	1

MATCHING

6.	ANS:	С	PTS:	1
7.	ANS:	В	PTS:	1
8.	ANS:	D	PTS:	1
9.	ANS:	А	PTS:	1

SHORT ANSWER

10. ANS: see book

- PTS: 3
- 11. ANS:
 - A polyuria
 - B lipidemia and ketoacidosis
 - C polyphagia or polyuria
 - D polyphagia or polyuria

PTS: 4