Biol-131 Exam 1 A

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Many effects of growth hormone are mediated by insulin-like growth factors (IGFs) secreted by
the pancreas.
A) True
B) False
Regardless of the cause of stress, the body reacts in a fairly consistent way to different stressors.
A) True
B) False
Addison disease is a consequence of a tumor of the adrenal medulla.
A) True
B) False
Which of the following is true regarding endocrine glands?
A) They secrete their products by way of ducts.
B) They secrete substances that do not alter the metabolism of their target cells, but have extracellular effects.
C) They have an unusually low density of blood capillaries.
D) They release their secretions into the blood.
E) Their secretions may be released onto the body surface.
The nervous system reacts to stimuli compared to the endocrine system, adapts compared to the endocrine system, and has effects compared to the endocrine system.
A) slowly; slowly; widespread
B) slowly; quickly; specific
C) quickly; quickly; widespread
D) quickly; quickly; specific
E) quickly; slowly; specific
The secretes growth hormone, which is also known as somatotropin.
A) hypothalamus
B) posterior pituitary
C) anterior pituitary
D) thymus
E) thyroid

The is not an endocrine gland but it has a A) thyroid gland	role in endocrine function.
B) adrenal gland	
C) kidney	
D) parathyroid gland	
, 1	
E) pancreas	
What makes a cell responsive to a particular hormon	e?
A) The site where the hormone is secreted	
B) The location of the gland that secretes the horm	none
C) The location of the target cells in the body	
D) The chemical properties of the hormone	
E) The presence of a receptor for that particular ho	ormone
The posterior pituitary secretes	
A) prolactin (PRL)	
B) growth hormone (GH)	
C) oxytocin (OT)	
D) thyroid hormone (TH)	
E) adrenocorticotropic hormone (ACTH)	
The hypophyseal portal system connects the	with the .
A) hypothalamus; thyroid	
B) anterior pituitary; hypothalamus	
C) anterior pituitary; posterior pituitary	
D) pituitary glands; thyroid	
E) posterior pituitary; hypothalamus	
Antidiuretic hormone (ADH) targets the	
A) hypothalamus	
B) adrenal gland	
C) pancreas	
D) anterior pituitary	
E) kidneys	
Of the following hormones, which has more target co	ells in the body than the others?
A) Growth hormone (GH)	,
B) Antidiuretic hormone (ADH)	
C) Corticotropin releasing hormone (CRH)	
D) Oxytocin (OT)	
E) Growth hormone-releasing hormone (GHRH)	

Target organs mos	t often regulate the p	otuitary gland via _	·	
A) up-regulation	1			
B) down-regulat	tion			
C) antagonistic	regulation			
D) negative feed	lback inhibition			
E) positive feed	back inhibition			
The infundibulum	is a			
A) bulky nucleu	s composed of the pa	araventricular nuclei	us and the supraoptic	nucleus
B) portal system	between the hypoth	alamus and the pitu	itary gland	
C) depression of	f the sphenoid bone th	hat protects the pitu	itary gland	
D) mass of endo	crine and neural cell	S		
E) projection of	the hypothalamus fro	om which the pituit	ary gland hangs	
The hormone calle	ed plays an	important role in s	ynchronizing physiol	ogical function
with the cycle of d	aylight and darkness	- I.		
A) melatonin	B) hepcidin	C) inhibin	D) melanin	E) calcitonia
A) parathyroidB) adrenal glandC) thyroidD) thymusE) spleen	1			
Thesect	retes a hormone that	increases the body's	s metabolic rate, pron	notes alertness,
quickens reflexes,	and stimulates the fe	etal nervous system.		
A) parathyroid g	gland			
B) thyroid gland	l			
C) adrenal gland	l			
D) pancreas				
E) thymus				
Thesec	rete(s) a hormone as	a response to hypoc	calcemia.	
The second A) parathyroid g	rete(s) a hormone as	a response to hypoc	calcemia.	
	glands	a response to hypoc	calcemia.	
A) parathyroid g	glands	a response to hypoc	calcemia.	
A) parathyroid gB) thyroid gland	glands	a response to hypoc	calcemia.	
A) parathyroid gB) thyroid glandC) pineal gland	glands I	a response to hypod	calcemia.	

46) Which of the following as a steroid hormone?
A) Aldosterone
B) Progesterone
C) Insulin
D) Cortisol
E) Estradiol
Circulating hormones are mostly taken up and degraded by the and the A) liver; spleen B) adrenal glands; intestines C) liver; kidneys D) spleen; kidneys E) blood; kidneys
Neither follicle stimulating hormone (FSH) nor testosterone alone can stimulate significant sperm production, whereas when they act together, the testes produce some 300,000 sperm per minute. This is an example of which principle regarding hormones? A) The synergistic effect B) The cascade effect C) The antagonistic effect
D) Hormone clearance E) The permissive effect
Glucagon increases blood glucose concentration and insulin decreases it. This is an example of
A) the synergistic effect
B) the cascade effect
C) the antagonistic effect
D) the permissive effect
E) hormone clearance
The initial response to stress is called the and is mediated mainly by A) alarm reaction; cortisol B) resistance stage; aldosterone and cortisol
C) alarm reaction; norepinephrine and epinephrine
D) exhaustion stage; norepinephrine and epinephrine
E) resistance stage; cortisol

A) goiterB) Cushing syndrorC) acromegaly	when it begins in adulthood. me
D) myxedema E) Graves disease	
46) Which of the followardA) GlycosuriaB) PolyuriaC) PolyphagiaD) HypoglycemiaE) Polydipsia	owing às a characteristic of diabetes mellitus?
Blood viscosity stems A) True B) False	mainly from electrolytes and monomers dissolved in plasma.
The liver stores excess A) True B) False	s iron in ferritin.
The most important coanhydrase. A) True B) False	omponents in the cytoplasm of RBCs are hemoglobin and carbonic
A person develops and only after he is expose A) True B) False	ti-A antibodies only after he is exposed to antigen A, and anti-B antibodies ed to antigen B.
Incompatibility of one against the RBCs' anti A) True B) False	e person's blood with another results from the action of plasma antibodies gens.
Rh incompatibility be of the newborn. A) True B) False	tween a sensitized Rh+ woman and an Rh- fetus can cause hemolytic disease

Growth hormone (GH) hypersecretion causes gigantism when it begins in childhood, but it is more

Circula A) T	· ·	spend most of their	lives in the bloodstr	eam.	
B) F					
	•	ntiate into large phag	gocytic cells.		
A) T					
B) F	alse				
Clottin	g deficiency	can result from thro	ombocytopenia or he	emophilia.	
A) T					
B) F	alse				
46) WI	nich of the fo	ollowin g os a function	n of blood?		
A) T	ransports a	variety of nutrients			
B) F	lelps to regu	late body temperatui	e		
	-	n the initiation of blo	ood clotting		
	_	sma hormones			
E) F	lelps to stabi	llize the pH of extrac	cellular fluids		
46) WI	nich of the fo	ollowin g ās contained	l in the buffy coat?		
*	ranulocytes				
*	latelets				
	ymphocytes				
	granulocyte	S			
E) E	rythrocytes				
		wing proteins is <i>not</i> i	normally found in p	lasma?	
	ibrinogen				
,	ransferrin				
,	rothrombin				
*	Albumin				
E) F	Iemoglobin				
What i	s the most al	bundant protein in pl	lasma?		
A) I	nsulin	B) Albumin	C) Creatine	D) Creatinine	E) Bilirubin
Where	does myelos	id hemopoiesis take	place in adults?		
A) Y	ellow bone	marrow	_		
B) S	pleen				
C) R	ted bone mai	rrow			
	`hymus				
E) L	iver				

•	port oxygen and	•		
A) initiate blood	•			
•	ne carbon dioxide			
C) transport nuti				
*	ody against pathogens	8		
E) regulate eryth	ıropoiesis			
Most oxygen is tra	insported in the blood	l bound to	 •	
A) the plasma m	embrane of erythrocy	/tes		
B) heme groups	in hemoglobin			
C) alpha chains	in hemoglobin			
D) delta chains i	n hemoglobin			
E) beta chains in	n hemoglobin			
Where do most RE	3Cs die?			
A) Lymph nodes	s and thymus			
B) Stomach and	liver			
C) Stomach and	small intestine			
D) Red bone ma	rrow			
E) Spleen and li	ver			
What is the final p	roduct of the breakdo	own of hemoglobin	?	
A) Bilirubin	B) Biliverdin	C) Heme	D) Iron	E) Globin
Correction of hypo	oxemia is regulated by	у		
A) a positive fee	dback loop			
B) a self-amplify	ying mechanism			
C) a cascade effe	ect			
D) an enzymatic	amplification			
E) a negative fee	edback loop			
A deficiency of	can cause per	rnicious anemia.		
A) vitamin B ₁₂				
B) vitamin C				
C) EPO secretio	n			
D) folic acid				
E) iron				

A) It is due to a B) It is a cause C) It is caused I D) It is a cause	by a recessive allele	bin defect. that modifies the str	ructure of hemoglobin	
, <u>-</u>	• •	•	o someone of type	and can receive
A) A; B	one of type B) B; A		D) O; AB	E) AB; O
48) A person with A) anti-A B) A and B C) no D) anti-B E) anti-A and a	type AB blood has noti-B	antigen(s).	
A) AB, Rh-positi B) O, Rh-positi C) AB, Rh-negat D) O, Rh-negat E) ABO, Rh-ne	ve ative ive	ood type		
A) anti-A antibo B) anti-A antibo C) anti-B antibo D) anti-D antibo	son why an individu pe A, Rh-positive blodies in the donor wordies in the recipient odies in the recipient odies in the donor wordies in the donor wordies in the donor wordies in the donor with	ood is becauseill agglutinate RBCs will agglutinate REs will agglutinate REsill agglutinate RBC	S of the recipient BCs of the donor BCs of the donor of the recipient	ot donate blood to an
51) The number of A) eosinophils B) basophils C) erythrocytes D) neutrophils E) monocytes		y increases in respo	nse to bacterial infect	ions.

52)	The cessation of bleeding is <i>specifically</i> called A) homeostasis
	B) a vascular spasm
	C) coagulation
	D) platelet plug formation
	E) hemostasis
53)	A patient is suffering from ketoacidosis caused by an unregulated high protein diet. Which
	function of the blood has been compromised?
	A) Stabilizing fluid distribution in the body
	B) Transporting hormones
	C) Transporting nutrients
	D) Protecting against microorganisms
	E) Stabilizing the body's pH
54)	Where in the body are hemopoietic stem cells found?
	A) Thymus
	B) Yellow bone marrow
	C) Spleen
	D) Liver
	E) Red bone marrow
55)	Blood clots in the limbs put a patient most at risk for
55)	A) septicemia
	B) hemophilia
	C) disseminated intravascular coagulation (DIC)
	D) thrombocytopenia
	E) pulmonary embolism
	/ I