Biol-131 Exam 1 B

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

1)	Many effects of growth hormone are mediated by insulin-like growth factors (IGFs) secreted by the pancreas. A) True B) False
2)	Circulating hormones are mostly taken up and degraded by the and the A) liver; kidneys B) adrenal glands; intestines C) spleen; kidneys D) blood; kidneys E) liver; spleen
3)	The posterior pituitary secretes A) prolactin (PRL) B) adrenocorticotropic hormone (ACTH) C) oxytocin (OT) D) growth hormone (GH) E) thyroid hormone (TH)
4)	The main reason why an individual with type AB, Rh-negative blood cannot donate blood to an individual with type A, Rh-positive blood is because A) anti-A antibodies in the recipient will agglutinate RBCs of the donor B) anti-B antibodies in the recipient will agglutinate RBCs of the recipient C) anti-A antibodies in the donor will agglutinate RBCs of the recipient D) anti-B antibodies in the donor will agglutinate RBCs of the recipient E) anti-D antibodies in the donor will agglutinate RBC of the recipient
5)	Growth hormone (GH) hypersecretion causes gigantism when it begins in childhood, but it is more likely to cause when it begins in adulthood. A) Cushing syndrome B) Graves disease C) acromegaly D) goiter E) myxedema
6)	The liver stores excess iron in ferritin. A) True B) False

7)	What is the final product of the breakdown of hemoglobin?							
	A) Iron	B) Globin	C) Bilirubin	D) Biliverdin	E) Heme			
8)	The infundibulum is a A) bulky nucleus composed of the paraventricular nucleus and the supraoptic nucleus B) portal system between the hypothalamus and the pituitary gland C) mass of endocrine and neural cells D) projection of the hypothalamus from which the pituitary gland hangs E) depression of the sphenoid bone that protects the pituitary gland							
9)	B) Helps to stabil	the initiation of blookize the pH of extra ate body temperatuma hormones	ood clotting cellular fluids					
10)	Regardless of the ca A) True B) False	use of stress, the b	ody reacts in a fairly	consistent way to diff	ferent stressors.			
11)		l to the endocrine s ly; specific y; specific y; specific ly; widespread		o the endocrine system effects compare				
12)	A person develops a only after he is expo A) True B) False		nly after he is expose	d to antigen A, and a	nti-B antibodies			
13)	Addison disease is a A) True B) False	consequence of a	tumor of the adrenal	medulla.				

14)	Which of the following is <i>not</i> contained in the buffy coat? A) Erythrocytes B) Lymphocytes C) Granulocytes D) Agranulocytes E) Platelets
15)	Most oxygen is transported in the blood bound to A) beta chains in hemoglobin B) alpha chains in hemoglobin C) delta chains in hemoglobin D) the plasma membrane of erythrocytes E) heme groups in hemoglobin
16)	A patient is suffering from ketoacidosis caused by an unregulated high protein diet. Which function of the blood has been compromised? A) Transporting hormones B) Stabilizing fluid distribution in the body C) Stabilizing the body's pH D) Transporting nutrients E) Protecting against microorganisms
17)	A deficiency of can cause pernicious anemia. A) vitamin C B) vitamin B ₁₂ C) EPO secretion D) folic acid E) iron
18)	Monocytes differentiate into large phagocytic cells. A) True B) False
19)	The most important components in the cytoplasm of RBCs are hemoglobin and carbonic anhydrase. A) True B) False

20)	The universal donor of RBC is blood type A) AB, Rh-positive B) O, Rh-negative C) AB, Rh-negative D) O, Rh-positive E) ABO, Rh-negative
21)	The secretes growth hormone, which is also known as somatotropin. A) thymus B) posterior pituitary C) anterior pituitary D) hypothalamus E) thyroid
22)	Where does myeloid hemopoiesis take place in adults? A) Yellow bone marrow B) Spleen C) Thymus D) Red bone marrow E) Liver
23)	Incompatibility of one person's blood with another results from the action of plasma antibodies against the RBCs' antigens. A) True B) False
24)	The cessation of bleeding is <i>specifically</i> called A) a vascular spasm B) hemostasis C) homeostasis D) coagulation E) platelet plug formation
25)	 Which of the following is true regarding endocrine glands? A) They have an unusually low density of blood capillaries. B) Their secretions may be released onto the body surface. C) They secrete their products by way of ducts. D) They secrete substances that do not alter the metabolism of their target cells, but have extracellular effects. E) They release their secretions into the blood.

26)	The initial response to stress is called the and is mediated mainly by A) resistance stage; cortisol B) alarm reaction; cortisol C) exhaustion stage; norepinephrine and epinephrine D) resistance stage; aldosterone and cortisol
	E) alarm reaction; norepinephrine and epinephrine
27)	The secretes several hormones that stimulate the development of lymphatic organs and regulates development and activity of T cells (white blood cells). A) adrenal gland B) thymus C) spleen D) thyroid E) parathyroid
28)	Rh incompatibility between a sensitized Rh+ woman and an Rh- fetus can cause hemolytic disease of the newborn. A) True B) False
29)	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) Hormone clearance C) The cascade effect D) The permissive effect E) The antagonistic effect
30)	A person with type AB blood has antigen(s). A) no B) A and B C) anti-B D) anti-A E) anti-A and anti-B
31)	Which of the following is <i>not</i> a characteristic of diabetes mellitus? A) Polydipsia B) Polyphagia C) Hypoglycemia D) Glycosuria E) Polyuria

- / -	oe A blood can safely one of type		meone of type	and can receive
	B) O; AB		D) B; A	E) O; O
33) Of the following	hormones, which ha	s more target cells in	the body than the o	others?
A) Corticotrop	in releasing hormone	e (CRH)		
B) Growth hor	mone-releasing horn	none (GHRH)		
C) Antidiuretic	hormone (ADH)			
D) Growth hor	mone (GH)			
E) Oxytocin (C	OT)			
34) Glucagon increas	es blood glucose cor	ncentration and insul	in decreases it. This	s is an example of
A) the permissi	ive effect			
B) the cascade	effect			
C) hormone cle	earance			
D) the antagon	istic effect			
E) the synergis	tic effect			
35) Blood viscosity s	tems mainly from el	ectrolytes and monor	mers dissolved in pl	asma.
A) True				
B) False				
36) Antidiuretic horn	none (ADH) targets t	the		
A) anterior pitu	iitary			
B) pancreas				
C) hypothalam	us			
D) kidneys				
E) adrenal glar	nd			
37) The number of	typically in	creases in response to	o bacterial infection	ıs.
A) erythrocytes	S			
B) basophils				
C) monocytes				
D) eosinophils				
E) neutrophils				
38) Which of the foll	owing proteins is <i>no</i>	t normally found in p	olasma?	
A) Transferrin				
B) Albumin				
C) Hemoglobii	1			
D) Fibrinogen				
F) Prothrombia	2			

•	ficiency can resul	t from thro	ombocytopenia or he	emophilia.	
A) True B) False					
40) Where in the	ne body are hemor	ooietic ste	m cells found?		
A) Liver					
B) Splee	n				
· -	w bone marrow				
D) Thym	us				
E) Red b	one marrow				
41) Correction	of hypoxemia is r	egulated b	у		
A) a nega	ative feedback loo	p			
B) an en	zymatic amplificat	tion			
C) a caso	ade effect				
D) a posi	tive feedback loop	p			
E) a self-	-amplifying mecha	anism			
42 Target orga	ns most often reg	ulate the p	oituitary gland via		
A) negat	ive feedback inhib	oition			
B) positi	ve feedback inhib	ition			
C) up-reg	gulation				
D) antag	onistic regulation				
E) down	-regulation				
43) What is the	most abundant pr	rotein in p	lasma?		
A) Albu	min B) Ins	sulin	C) Creatine	D) Creatinine	E) Bilirubir
44) Which of th	ne following is no	t a steroid	hormone?		
A) Estrad					
B) Proge	sterone				
C) Aldos	terone				
D) Insuli	n				
E) Cortis	sol				
45) Where do r	nost RBCs die?				
A) Stoma	ach and liver				
B) Lymp	h nodes and thym	ius			
, -	n and liver				
· · · · · · · · · · · · · · · · · · ·	one marrow				
E) Stoma	ach and small inte	stine			

46)	The hypophyseal portal system connects the with the
	A) hypothalamus; thyroid
	B) anterior pituitary; posterior pituitary
	C) anterior pituitary; hypothalamus
	D) pituitary glands; thyroid
	E) posterior pituitary; hypothalamus
47)	The is not an endocrine gland but it has a role in endocrine function.
	A) adrenal gland
	B) kidney
	C) pancreas
	D) thyroid gland
	E) parathyroid gland
48)	Circulating WBCs spend most of their lives in the bloodstream.
	A) True
	B) False
49)	Erythrocytes transport oxygen and
	A) transport some carbon dioxide
	B) initiate blood clotting
	C) transport nutrients
	D) regulate erythropoiesis
	E) defend the body against pathogens
50)	Which of the following is <i>not</i> true regarding sickle-cell disease?
	A) It is a cause of anemia.
	B) It is caused by a recessive allele that modifies the structure of hemoglobin.
	C) It is due to a hereditary hemoglobin defect.
	D) It is a cause of malaria.
	E) It is advantageous in that it can protect carriers against malaria.
51)	What makes a cell responsive to a particular hormone?
ŕ	A) The presence of a receptor for that particular hormone
	B) The chemical properties of the hormone
	C) The location of the gland that secretes the hormone
	D) The site where the hormone is secreted
	E) The location of the target cells in the body

52) The	secretes	a hormone that	increases the body's n	netabolic rate, promo	otes alertness,
quickens	reflexes, and	stimulates the fo	etal nervous system.		
A) adre	enal gland				
B) para	thyroid gland	Ĺ			
C) thyr	nus				
D) thyr	oid gland				
E) pan	creas				
53) The	secrete(s) a hormone as	a response to hypocal	cemia.	
A) pine	al gland				
B) para	thyroid gland	IS			
C) pitu	itary gland				
D) thyr	oid gland				
E) thyr	nus				
54) The horm	one called	plays aı	n important role in syn	chronizing physiolo	gical function
with the o	cycle of daylig	ght and darkness	S.		
A) mel	anin	B) inhibin	C) melatonin	D) calcitonin	E) hepcidin
55) Blood clo	ts in the limb	s put a patient n	nost at risk for		
A) sept	icemia				
B) thro	mbocytopenia	a			
C) hem	ophilia				
D) pulr	nonary embol	ism			
E) diss	eminated intra	avascular coagu	lation (DIC)		