, ·	Check examples of an another ypes of immunity  Examples of heat transfer.  Bology 242. Diversity of Life. Examination 3. Form A
(	Dr. James Alexande. Fall 2011. University of Louisville.  When you are done, you must turn in the entire exam and your answer sheet to Dr. Alexander or one of the proctors, as show them your identification, or your exam will not be graded. Keep your answer sheet and test as shielded as
	possible at all times. Good luck!
	Name (PRINT!)  Student #  Student
A	The Pessia - human digest re system. Dessia  1. Which of the following choices lists the organs of the human digestive system in the correct order? Pessia Starting from the mouth - PESS LA PESSLA PESSLA
	A) pharynx - esophagus - stomach - small intestine - large intestine - anus.  B) pharynx - esophagus - stomach - large intestine - small intestine - anus.  C) esophagus - pharynx - stomach - large intestine - small intestine - anus.
	D) esophagus - pharynx - stomach - small intestine - large intestine - anus.  E) pharynx - stomach - small intestine - esophagus - large intestine - anus.  Pancuae, loophagus Stomach  Pancuae, looph
Ł	2. All of the following are functions of the mammalian kidney except one. Which one is incorrect?  A) water retention. (B) filtration of blood. (C) excretion of nitrogenous waste.
Ki	Dyregulation of salt balance in the blood. El synthesis of urea from ammonia.  Anul S retain H20, filen blood, exercite nithalnous wasted.  3. Blood travels from the mammalian heart to the lungs by means of the:  A) axon. B) yena cava. O pulmonary vein. O pulmonary artery. E) aorta-  UREA FROM  AMAGA
*	A)-axon. B) vena cava. © pulmonary vein. D) pulmonary artery. E)-aorta-  V —> lung 5 = Pulmonary Artery lung > V Pulmonary vein Ammonia.  4. Acquiring immunity from a primary immune response to an initial infection is an example of:
D	A) artificially acquired passive immunity.  (D) naturally acquired active immunity.  (D) naturally acquired active immunity.
A	5. You are standing barefoot on a cold stone floor. Your feet rapidly get cold from heat energy directly transferring from your feet to the stones. Which method of heat loss / gain is primarily responsible for the additional heat loss?
Con	(A))conduction. B) convection. C) radiation. D) evaporation. E) metabolism.  duction = Surface -> body radiation = Sun convection = Franction by fluids  6. Which of the following is from a nitrogenous waste produced by animals? A) animonia. B) urid acid.
n n	C) wrea. (D) nitrate. E) all of the above answers (A through D) are nitrogenous wastes produced by animals.  Nitrate: not a nitrogenous wastes produced by animals.
ט	In what organism would you see a 'lung' for gas exchange?  (A) crustaceans. (B) pulmonate land snails and slugs. (C) insects. (D) jellyfish. (E) flatworms:  (N) Would Ou a lung for gas withough in thous of blugs.  (8. Which of the following is/are example(s) of epithelial tissue) A) cartilage.  (3. C) insects. (D) jellyfish. (E) flatworms:  (B) Which of the following is/are example(s) of epithelial tissue) A) cartilage.
	B) the cells that make up the lining of the lung alveoli. C) endotherium of the capillary.
~ 7	9. What portion of a human nephron lies between the Bowman's capsule and the loop of Henle?  A) the lacunae. (B) the present the Bowman of the loop of Henle?
A	E) the distal convoluted tubules. Profumal convoluted tubules between Bownand Hunle. Convoluted tubules. B cells - plasma 10. B cells form plasma cells, which in turn produce antibodies. (A) True. B) False. Cells - autibodies
<b>/</b> \	11. An example of a fat-soluble vitamin is/are:  (A) vitamin A. B) vitamin B. C) vitamin C. D) iodine. E) two of the above answers are correct.
	VITAMIN A = fat- soluble.
•	Which is not a fat coluble vitamin? Vitamin B, vitamin C, iodine

1	74 73 or 4 22 amphibians & reptiles have 3-chambered 4
D	26. Which of the following contains species that have a three-chambered heart?  A) Aves. B) Reptilia. C) Mammalia. D) Osteichthyes. E) two of the above answers are correct.
B	27. An animal equipped with nephrons for collection of nitrogenous wastes:  A) an insect. (B) a human. (C) an earthworm. (D) a flatworm. (E) an amoeba.  animals.
£	28. A type of [-cell that is thought to help prevent autoimmune diseases.]  A) helper T cells. B) eytotoxic T cells. C) plasma cells. D) neutrophils. E) suppressor T cells
A	29. To which of the following groups do birds belong?  Autoimmune discosts -> Autoimmune di
C	30. Oxygen gas is transported in blood most efficiently by: A) chemical conversion to water. B) combining oxygen gas with carbon dioxide to form bicarbonate. Dtemporarily binding to hemoglobin. D) dissolving as a gas in the plasma. E) interacting with hemoglobin to form carbonate.
С	31. Amphibians belong to the subphylum tempratuly binding tempratuly bindi
D	9nylum - craviata kingdom - animalia domain - cukauyota 32. An ammocoete larva is the larval form of a:  A) sea squirt. (B) lancelet. (C) bony fish. (D) lamprey. (E) hagfish. Ammocoete lavae = lamprey.
13	33. Protein digestion begins in the Lamprey ammocotte laure.  A) mouth. B) stomach. C) small intestine. D) large intestine. E) liver. Protein digestion begins
E	Metabolic waste urea is formed from ammonia; the ammonia in turn was produced from the removal of
E	Metabolic waste is produced by removal of amino from an amino acid.  35. The group that has a notochord that becomes partially enclosed by cartilaginous sheath, a cartilaginous skeleton, a circular mouth with keratinized teeth, a rasping tongue, and two pairs of semicircular canals:  A) sea squirts.  B) sharks.  C) hagfish.  D) bony fish.  E) lampreys. Lampuy = 2 pairs Semi circular
A	Lampun 2 2 Almi arculou Canalo 4 cathilagunous Akilton. Canalo 36. Which of the following vertebrate groups is not considered a amniote tetrapod?  (A) Osteichthyes. B) Reptilia. (C) Aves. (D) Mammalia. (E) all of the above answers are amniote tetrapods.
<u></u>	NOT A TETE A POD = OSTEICH THES. THEY OW Fish. through = anythurs w/ 4  37. Which of the following distinguishes cardiac muscle from both smooth muscle and skeletal muscle?  At Only cardiac muscle cells contract.  By Cardiac muscle cells are the only one that are striped or striated.  Cardiac muscle cells are the only ones that contract involuntarily.  Cardiac muscle cells are the only ones that contract when you voluntarily wish them to do so.  Example 1. They ow fish.  Cardiac muscle cells are the only ones that contract involuntarily.  Cardiac muscle cells are the only ones that contract when you voluntarily wish them to do so.  Example 2. They ow fish through 4.
A	Condiac muscles an Fu only allo that are branched.  38. Tunicates (sea squirts) belong to the subphylum:  (All the branched)
C	tunicates belong to subthiling waters during spring break. The animal is segmented, with chevron-shaped muscle blocks arranged along the notochord. It has no bones. The adult swims, and the notochord is retained in the adult. It is in the subshilling.
$\subset$	in the adult. It is in the subphylum:  A) Craniata. B) Hemichordata. C) Cephalochordata. D) Urochordata. E) Echinodermata.  Chevron = Cephalochordata.  40. Which of the following is analogous to the insects' Malpighian tubules, with respect to its function?  A) mammalian pancreas. B) human appendix. C) molluscan metanephridum. D) annelid intestine.
	E) mammalian spleen.
	Analogous to insects Malpighian tubules molluscan metanephridium.
	Malpighian tubules = moilircan metane phridium.
	multidum topologe monicon monicon.

•	
5 / C	Prevents digestive system from producing engymus
	41. Your doctors proscribe a drug that prevents your digestive system from producing most of the hydrolytic enzymes that digest food materials. Which organ is most directly affected by this drug?
E	that digest food materials. Which organ is most directly affected by this drug?  A) stomach. B) liver. C) small intestine. D) large intestine. E) pancreas.
$\mathcal{T}$	42. What is the body's first line of defense against infections? A) antibodies. B) T-cells. C) B-cells: (D) several nonspecific obstacles such as skin and mucus membranes. E) G-cells.
У	43. Which of the following groups (if any) is not a gnathostome? wills arimals
B	A) bony fish. (B) lancelets. (C) mammals. (D) amphibians. (E) all of the previous answers are gnathostomes.  Lancelets = agrathsome. Abnathostomes = lancelets
B	44. The hormone that stimulates the production of stomach secretions and stimulates mucosal cell division of the lining of the stomach: A) cholecystokinin. B) gastrin. C) secretin. D) pepsin. E) bile.
	Gastin- Stomach Secretions + mucosal cell division in Stomach Unung. 45. The pathway of urine from kidney to the outside is:
$\mathcal{D}$	A) kidney - ureter - bladder - epididymis - urethra.  B) kidney - ureter - epididymis - bladder - urethra.  KUBU
a	Kidney - urethra - bladder - ureter.
<b>(</b>	D) kidney - ureter - bladder - urethra. E) kidney - ureter - liver - gall bladder - bladder - ureter.
•	46. Carbon dioxide is transported in blood primarily in the form of: Addissolved carbon dioxide gas.
B	B) bicarbonate (HCO <sub>3</sub> ). C) carbonic acid (H <sub>2</sub> CO <sub>3</sub> ). D) carbon monoxide (CO):
	CO 2 trunsported in blood by bicarbonale
P	47. The connective tissue that connects a muscle to a bone is called a: Bone to bone = ligament.  A) filament. B) fascia. C) ligament. D) tendon. E) myofibril. bone - muscle = tenden
A	48. The large skeletal muscles in your upper leg are: (A) triated and voluntary. B) smooth and involuntary.
• (	e) smooth and unbranched. D) smooth and voluntary. E) striated and branched.  Steletal muscle: Striated & voluntary. Striated & voluntary.
A	Skeletal muscle = Striated & Voluntary. Striated & Voluntary.  49. A special drug has been developed that inhibits the contraction of uninucleated cells that have no prominent striations. Which muscle type would be inhibited? (A) smooth. B) cardiac C) skeletal.
-	D) all three muscle types would be equally affected: Smooth = uninucleated & no Striations.
A	50. Which mammal group lays eggs that hatch outside of the mother?
	(A) monotreme mammals. B) marsupial mammals. C) eutherian mammals. D) no mammals lay eggs.
	Monotreme animals = lay eggs that haten outside mother. Skeletal: Striated of voluntary.
ph	anynx - esophagus - stommach - Small - large - anus
	PESSLA
	KUBU & PESSLA
,\ `	KUBU 4 P63301
*	bloddy, urethra.
6	kidney vreter windensmach small large arms
	kidny vreter bladder vrethra.  phanny esophagus stimach small large anus