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2 nd Semester Final Review 48 Purple <i>Italicized</i> and <u>Underlined</u> Questions are very similar to questions on our "Second Semester Final" 9 <i>Circled numbers</i> and <u>underlined</u> questions are the most missed.	5A DNA Structure	 1. (5A) Which of the following is found in both DNA & RNA? A. phosphate group + guanine + uracil B. phosphate group + guanine + cytosine C. ribose + phosphate group + uracil D. deoxyribose + phosphate group + thymine
 2. (5A) The four bases in DNA are A.Adenine, thymine, guanine & cytosine B. Adenine, uracil, guanine & cytosine C. Deoxyribose, uracil, thymine & Adenine D. Ribose, uracil, thymine & Adenine 	 3. (5A) Which of the following represent the initials for the following?tRNA,rRNA and mRNA A. Transition,ribosomal& messenger B. Transfer, reconnaissance & messenger C. Transfer,ribosomal & methione D. Transfer.ribosomal & messenger 	1D & 5B Transcription & Translation
4. (DNA&RNA 5b) What is produced during transcription? A. mRNA molecules B. DNA C. RNA polymerase D.proteins	5. (Genetics 5B) During mRNA transcription, a portion of a DNA strand that has the bases CTAGGT produces a messenger RNA transcript that has the following sequence of bases.A. GAUCCAB. GATCCA C. GATCAADNA Strand CTAGGT mRNA Strand GAUCCA	6. (Cell Biology 1D) what does the figure below show? A. Anticodon B. the order in which amino acids are linked C. the code for splicing mRNA D. the genetic code
7. (Cell Biology 1D) Which organelle is involved in both DNA Replication and Transcription? A. Ribosome B. Endoplasmic Reticulum C. Nucleus D. RNA and DNA	8. (Genetics 5B) Durind DNA replication, a DNA strand that has the bases CTAGGT produces a complementary strand with the bases? A. GAUCCA B. GATCCA C. GATCGA D. TCGAAC	 9. What happens during the process of translation? a. mRNA is made from DNA b. Copies of DNA more are made c. The cell uses into from mRNA to make proteins.
4A & 4B Transcription & Translation	RNA & DNA 1D Central Dogma Flow of Genetic Information DNA → RNA → Protein DNA RNA (in Ribosomes) Protein 10.(4a)Process #1 is known as? A.Transcription B.translocation C.Translation D.Replication	11. (4a) The tRNA anticodon GAU is complementary to this mRNA cod A. CTU B. CUA C. GCG D. ATA

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	12. (4a) What is the final product of this process? A. mRNA only B. tRNA only C. No RNA	 13. (4a) What does the figure below represent? A. Transcription B. DNA Replication C. Translation D. Protein Tysis 	 14. (4a) Which defines what a codon is? A. The strong bond between two complementary nitrogenous bases. B. A free-floating base that attaches to an open DNA strand. C. A protein that begins transcription by breaking apart H bonds. D. The genetic code word of three bases that specify one amino acid.
	4C & 4D Mutations & Gene Expression	 15. DNA & RNA 4C A single change in the sequence of nitrogenous bases in a DNA molecule would most likely result in? A. A gene mutation B. nonddisjunction of genes C. Crossing-over D. Polyploidy 	 16. DNA & RNA 4D If a specific kind of protein is not continually used by a cell, the gene for that protein is A. always transcribed. B. never expresses. C. not regulated. D. turned on and off at different times
	 17. DNA & RNA 4D Gene regulation in the eukaryotes A. usually involves operons. B. is simpler than in prokaryotes. C. allows for cell specialization. D. includes the action of an operator region. 	5C Genetic Engineering	18. One function of gel 18. One function of gel 19. Cur DINA 19. Cur DINA C. Recombine DNA
	 19. Analyzing DNA by gel electrophoresis allows A. Identify similarities and differences in the genomes of different kinds of organisms. B. Compare the phenotypes of different organisms C. Cut DNA with restriction enzymes 	 20. On an electrophoresis gel, band A is closer to the positive end of the gel than band B. Which is True? A. Band B is smaller than Band A and moves faster through the gel. B. Band A is smaller than Band B and moves faster through the gel. 	A prokaryote is changed into a gukaryote. A cell takes in DNA from outside the cell. C. A cell takes in DNA from outside the cell. C. A cell is mutated.
	22. What kind of cells were used to make Dolly? A. body cell and egg cell. B. Egg cell only C. Body cell only D. Egg and sperm cell.	 23. Which of the following is a clone? A. The adult sheep whose DNA was used to make dolly. B. A transgenic mouse. C. A funny person. D. Dolly 	24.5C A DNA molecule produced by combining DNA from different sources is known as A. A mutant B. Recombinant DNA C. A polyploid D. A hybrid

25. 5C Genetic engineering involves A. Editing a DNA sequence B. Reading a DNA sequence C. Reinserting DNA into living organisms D. All of the above	26. What does this figure show? A. Gel electrophoresis B. DNA sequencing C. Polymerase chain reaction D. A restriction enzyme producing a DNA fragment.	Evolution 7A, 7B, 7C & 7D
 27. 7d.Which of the following is consistent with Darwin's theory of evolution relative to individuals that survive to reproduce? A. They transmit characteristics acquired by use or disuse to their offspring B. They are the ones best suited to exist in their environment. 	 28. 7d. According to Darwin's theory of natural selection, the individuals that tend to survive? A. transmit characteristics acquired by use or disuse to their offspring. B. have undergone mutations C. have the smallest # of offspring. D. have variations best suited to the environment. 	29. 7a.Natural Selection acts directly on? A. Alleles B. Genes C. Mutations D. Phenotypes
 30. 7c. The two main sources of genetic variation are ? A. Directional & Disruptive Selection. B. Gene shuffling and mutations. C. Genotypes and Phenotypes. D. Single gene and polygenic traits. 	 31. 7d. If a mutation introduces a new feather color in a bird population, which factor might determine whether the frequency of the new allele will increase? A. Whether the mutation makes some birds more fit for their environment than other birds. B. How many other alleles are present. C.Whether the mutation was caused by nature or by humans. D.How many phenotypes the population has. 	 32. 7d. How can lethal alleles be preserved in a gene pool? A. Lethal alleles cannot be preserved in a gene pool. B. Lethal alleles can be preserved by gene regulation. C. Lethal alleles do not result in death and therefore can be maintained in a gene pool. D. Lethal alleles can be preserved in a gene pool in heterozygous individuals.
 33. 7d. A large population of flies was sprayed with a newly developed, fast-acting insecticide. The appearance of some flies that are resistant to this insecticide supports the concept that A. the environment does not change. B. Species traits tend to remain constant C. Variation exists within species D. Biocides cause mutations. 	 34. 7d A change in the DNA sequence is called a A. recombination B. polygenic trait C. Mutations D. Single-gene trait 	 35. 7a.Natural Selection may occur when? A. there are differences in survival and reproduction among those with different traits B. variation in fitness favor different environmental conditions. C. variation exists in a population D. all of the above
 36. 7d. Sickle cell anemia is a genetic disorder caused by a recessive gene. Which below is true? A. If you get the sickle cell anemia allele from only one parent, you will not get sickle cell anemia but you may pass the allele to your children B. If you get the sickle cell anemia allele from only one parent, you will get sickle cell anemia and you will pass the allele to your children C.If you get the sickle cell anemia allele from both parents, you will not get sickle cell anemia but you may pass the allele to your children 	 37. 7d.When tigers prey on antelopes some antelopes will escape. Which part of Darwin's theory would support this situation? A. Acquired characteristics of B. Reproductive isolation C. Speciation due to mutations D. Survival of the fittest 	Evolution 7E

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	 38. 7E According to the Hardy-Weinberg principle, the gene pool of a population will remain stable if A. The population is small B. Individuals migrate in and out of the population. C. Nonrandom mating occurs by artificial selection. D. No mutations occurd 	 39. 7E The situation in which allele frequencies remain constant is called A. Evolution B. Natural Selection C. Genetic Drift D. Genetic Equilibrium E. Mutations Occur 	 40. 7E The gene frequencies in a population would most likely change if the following occurred. A. mutations B. A stable environment C.It develops into a large population D. Random mating 	
	 41. 7E What will most likely happen if the gene frequencies in a given population remain constant? A. Evolution will not take place within that population. B. Evolution within that population will occur at a faster rate. C. Recessive characteristics will increase in the population. D. Dominant characteristics will increase in the population. 	Evolution 8C & 8D	 42. 8C Which result is the effect of genetic drift on a small interbreeding population? A. The population tends to be more evolved. B. There is little effect. C. The genes in the population tend to be more heterogeneous. D. The genes of the population tend to be more homologous. 	
	 43. 8C Which result is the effect of genetic drift on a very large breeding population? A. There is little effect. B. The genes of the population tend to be more homologous C. The genes of the population tend to be more heterogeneous D. The population tends to be more evolved. 	 44. 8C Part of a population of rats in a forest leaves the forest to live in a meadow some distance away. Over many generations, the rats in the meadow will likely evolve-? A. More slowly than the forest rats. B. In exactly the same way as the forest rats. C. Different behaviors than that of the forest rats. D. By mating with the forest rats. 	 45. 8D A factor that is necessary for the formation of a new species is A. Reproduction at different times. B. Geographical barriers. C. Different mating behaviors D. Reproductive Isolation 	
	 46. 8d When two kinds of birds become reproductively isolated, it means they-? A. cannot have offspring. B. they live far apart from each other. C. can only breed with each other. D. are two separate species. 	 47. 8D A population of bobcats is divided into small groups, which are geographically separate. Over time, which development is most likely to occur? A. The groups will artifically select. B. The groups will compete with each other for food. C. The groups will have identical genotypes. D. The groups will evolve separately 	 <u>48. 8D The separation of populations by barriers such as rivers, mountains, or bodies of water is called</u> A. Genetic equilibrium B. Behavior Isolation C. Temporal isolation D. Geographic Isolation 	
	 49. 8D The geographical isolation of two populations of a species tends to increase differences between their gene pools because it A. prevents interbreeding between the populations. B. prevents interbreeding within each population. C. causes temporal isolation of the two populations. 	 50. % As a result of a series of chance occurences, genetic drift can lead to the following changes in a population Except A. An allele could become less common B. An allele could become more common C. An allele could be eliminated altogether D. An increase in the overall genetic variability 	51. 8C Genetic drift tends to occur in populations that A. are very large. B. are small C. are formed from new species. D. have unchanging allele frequencies.	

Evolution 8A & 8B	 52. 8A Which of the following phrases best defines evolution by Natural Selection ? A. An adaptation of a species to its environment. B. Changes in a species as it becomes more perfect. C. A process of change in a species over time. 	 53. 8B Which of the following types of species is most likely to increase in a population over a period of time? A. A very specialized species. B. A species with a lot of competition. C. A very diverse species. D. A species with lots of predators
 54. 8B Which of the following is most likely to cause a decrease in a predator population ? A. A sudden environmental change B. An increase in prey. C. Diversity within the population. D. A reduction in competition. 	 55. 8B Which statement describes the "selection" method of natural selection? A. Organisms that are better adapted tend to produce more offspring. B. Organisms that are better adapted tend to live longer. C. Organisms that are better adapted tend to kill off those that are not. D. Organisms that are better adapted tend to take over more area. 	 56. 8B Organisms become diverse as a result of? A. Inherited traits. B. Inbreeding. C. Genetic mutations. D. Population increases.
 57. 8B Which reason is least likely to cause a species to become extinct? A. Abrupt climate change. B. Introduction of a new species. C. Genetic mutation in one individual. D. Destruction of habitat. 	 58. 8B Which group would be most likely to survive a major environmental change? A. A very specialized group. B. A group of producers. C. A very diverse group. D. A group of predators. 	 59. 8B Organisms become diverse as a result of? A. Inherited traits. B. Inbreeding. C. Genetic mutations. D. Population increases.
 60. 8B What occurs when the adaptive characteristics of a species are not enough for the species to survive in a changed environment? A. Natural Selection. B. Extinction. C. Predation. D. Speciation. 	 61. 8B Diversity of species in an ecosystem helps to ensure that at least some species? A. are related to a common ancestor. B. will become extinct. C. will survive changes in the ecosystem. D. will evolve. 	62. 8A Which of the following is NOT a way in which natural selection affects the distribution of phenotypes? A. Directional Selection B. Stabilizing Selection C. Disruptive Selection D. Chance Events
 63. 8B According to Darwin's theory of natural selection, the individuals that tend to survive are those that have? A. Characteristics their parents acquired by use and disuse B. Characteristics that plant and animal breeders value C. Variations best suited to the environment D. The greatest number of offspring 	 64. 8A If a mutation introduces a new skin color in a bat population, which factor might determine whether the frequency of the new allele will increase? A. How may other alleles are present B. Whether the mutation makes some bats more fit for their environment than other bats C. Whether the mutation was caused by nature or by human intervention D. How may phenotypes the population has 	 65. 8B According to Darwin's theory of natural selection, individuals who survive are the ones best adapted for their environment. Their survival is due to the A. Possession of adaptations developed through use B. Possession of inherited adaptations that maximize fitness C. Choices made by plants and animal breeders D. Lack of competition within the species

 66. 8A Which statement about evolution in the Galapagos finches is true? A. Mate choice likely plays no role in finch evolution B. Natural selection on beak size and shape is driven by the available food C. None of the finch species is reproductively isolated D. Stabilizing selection has favored an intermediate beak type 	 67. Id (Reinforced)When tigers prey antelopes some antelopes will escape. Which part of Darwin's theory would support this situation? A. Acquired characteristics B. Reproductive isolation C. Speciation due to mutations D. Survival of the fittest 	 68. 8A Which of the following phrases best describes the results of natural selection? A. The natural variation found in all populations B. Unrelated but similar species living in different locations C. The struggle for existence undergone by all living things. 	
Evolution 8E	 69. 8E The number and location of bones of many fossil vertebrates are similar to those in living vertebrates. Most biologist would probably explain this fact on the basis of A. the needs of the organisms. B. a common ancestor. C. The struggle for existence D. The inheritance of acquired traits. 	 70. 8E What could you infer about the relative ages of the fossils of fish if found in the following order: fish with leg-like fins, bony fish with a jaw and a Awldae bony fish must be older than the jawless fish. B. The fish with leg-like fins could be the youngest of the three fishes. C. Only the bony fish could be the oldest of the three fishes 	
 71. 8E A mass extinction would encourage the rapid evolution of the surviving species A. by changing developmental genes B. by opening ecological niches C. Because it killed all organisms that had coevolved. 	 72. 8E Examples of fossils include preserved A. eggs B. footprints C. Body parts D. All of the above 	 73. 8E To be useful as an index fossil, a species must have existed for A. Long periods over a wide geographic range. B. Long period over a small geographic range C. Short periods over a wide geographic range D. Short period over small range. 	
Standard 9D&9E Electrochemical Impulse & Neurons	 74. (9d) What is the function of the cerebrum? A. controls conscious and voluntary activities of the body. B. controls heart rate. C. controls blood pressure. D. controls breathing. 	 75. (9e) Neurons are categorized by the A.direction in which they carry impulse. B. amount of metabolic activity takes place. C. number of impulses or dendrites that branch out. 	
76. (9d) The cell body of a neuron collects information from which structure in the diagram? A.1 B. 2 C. 3 D. 4 Nucleur Market Market	 77. 9d Which of the following best describes the direction and sequence of movement of a traveling nerve impulse? A. axon,cell body,dendrites,synapse B. dendrites,cell body,axon,synapse C. dendrites,axon,cell body,synapse D. Cell body,dendrites,synapse,axon 	 78. (9d) What is the function of the neurotransmitters? A. to transmit nerve impulses through the dendrites. B. to stimulate the production of epinephrine. C. to transmit nerve impulses across synapses. D. none of the above 	

79.(b) A change in the internal over stormal initiates an Anceoptor Mathematical methods storm as a Anceoptor Mathematical methods storm as a Anceoptor Mathematical methods storm as a Anceoptor Mathematical methods storm and action and action and action potential reaches the end of a neuron, it triggers the release off. S. (9d) Which general S. (9d) What is the function of the centrul metroduction (100 				
83. (9d) Which general category of sensory 84. 9B What is the function of the central nervous system? A. Thermoreceptors Image: Sensory A. Thermoreceptors Image: Sensory B. Mechanoreceptors Image: Sensory C. Photoreceptors Image: Sensory D. Pain Receptors Image: Sensory B. Mechanoreceptors Image: Sensory D. Pain Receptors Image: Sensory B. Accell Body B. Axon Image: Sensory C. Dendrites Image: Sensory D. Receptors Sensory B. Sodium Ions Image: Sensory C. Dendrites Image: Sensory D. Receptors Sensory 88. 9B Which system Sensory C. Dendrites Sensory D. Receptors Sensory 8. A. Acreal Sensory B. Reproductive System Sensory D. Parathyroid Image: Sensory B. Reproductive System Sensory D. Parathyroid Sensory B. The sumpathetic nervous system Sensory D. Nervous System Sensory D. Nervous System Senservice	 79. (9e) A change in the internal or external environment that initiates an impulse is known as a A. receptor B. response C. stimulus D. synapse 	 81. (d) Which division(s) of the peripheral nervous system transmit(s) impulses from sense organs to the central nervous system? A. sensory division B. motor division C. sensory and motor division D. spinal cord division 	 82. DE What are the two divisions of the peripheral nervous system? A. Brain & spinal Cord B. Somatic & autonomic C. Sensory & motor D. Thalamus & hypothalamus 	
86. (9d) When an action potential reaches the end of a neuron, it triggers the release of?87. (9d) Identify the cell belowStandard 9B & 9CA. Neurotransmitters B. Sodium Ions C. Dendrites D. ReceptorsA.Cell Body B. Axon C. Dendrite D. Neuron D. ReceptorsStandard 9B & 9C88. 9B Which system coordinates the body's response to changes in its internal and external environment? A. Excretory System D. Receptors89. (9c) Which gland fails to produce enough of its notice the body's response to changes in its internal and external environment? N. Excretory System90. 9C A thermostat is a good example of algender the disease diabetes mellitur A. adrenalB. Reproductive System C. Lymphatic SystemD. parathyroidA. Endocrine gland B. hypothalamus D. parathyroid91. 9C Which process enalitation a stable body temp? A. The parasympathetic nervous systen92.9C Which system in a human is responsible for producing hormones from glands, to regulate metabolism, growth, and sexual development? A. Circulatory B. Digestive C. Endocrine D. Respiratory93. 9B Which system in a human is responsible for processing information and directing actions? A. Muscular System D. Nervous SystemB. The sumpathetic nervous system D. Action potentialD. Respiratory93. 9B Which system in a human is responsible for processing information glands, to regulate metabolism, growth, and sexual development? A. Circulatory B. Digestive D. Respiratory93. 9B Which system B. Reproductive System D. Nervous System	 83. (9d) Which general category of sensory receptors detect variations in temperature? A. Thermoreceptors B. Mechanoreceptors C. Photoreceptors D. Pain Receptors 	 84. 9B What is the function of the central nervous system? A. To relay messeges B. To analyze information C. To process information D. All of the above 	 <u>85. 9E Which system</u> <u>controls the body's</u> <u>response to changes in its</u> <u>internal and external</u> <u>environment?</u> A. Lymphatic System B. Excretory System C. Nervous System D. Reproductive System 	
88. 9B Which system coordinates the body's response to changes in its internal and external environment? A. Excretory System B. Reproductive System C. Lymphatic System D. Nervous System89. (9c) Which gland fails to produce enough of its hormone in the disease diabetes melliture A. adrenal90. 9C A thermostat 	 <u>86. (9d) When an action</u> potential reaches the end of a neuron, it triggers the release of? A. Neurotransmitters B. Sodium Ions C. Dendrites D. Receptors 	 87. (9d) Identify the cell below A.Cell Body B. Axon C. Dendrite D. Neuron 	Standard 9B & 9C Endocrine Feedback System	
91. 9C Which process enables the body to maintain a stable body temp?92.9C Which system in a human is responsible for producing hormones from glands, to regulate metabolism, growth, and sexual development?93. 9B Which system in a human is responsible for processing information and directing actions?A. The parasympathetic nervous systemA. Circulatory B. DigestiveA. Circulatory B. DigestiveB. Reproductive SystemC. Feedback inhibition D. Action potentialD. RespiratoryD. Nervous SystemD. Nervous System	 88. 9B Which system coordinates the body's response to changes in its internal and external environment? A. Excretory System B. Reproductive System C. Lymphatic System D. Nervous System 	 89. (9c) Which gland fails to produce enough of its hormone in the disease diabetes melliture. The Enderine System D. parathyroid 	90. 9C A thermostat is a good example of a(an) A. Endocrine gland B. Feedback system C. Bodystuffa D. Hormone-Receptor Complex	
	 91. 9C Which process enables the body to maintain a stable body temp? A. The parasympathetic nervous system B. The sumpathetic nervous system C. Feedback inhibition D. Action potential 	92.9C Which system in a human is responsible for producing hormones from glands, to regulate metabolism, growth, and sexual development? A. Circulatory B. Digestive C. Endocrine D. Respiratory	 93. 9B Which system in a human is responsible for processing information and directing actions? A. Muscular System B. Reproductive System C. Immune System D. Nervous System 	

94. 9C Which process enables the body to maintain a relatively stable internal environment?A. The parasympathetic nervous systemB. The sumpathetic nervous systemC. Homeostasis D. Action potential	 95. (9c) The nervous system is to a telephone as the endocrine system is to a A. chemical message. B. television set. C. radio broadcast. D. hormone. 	Standard 9A Nutrients & Waste Removal	
 96. (9a) Which of the following is the correct order of nutrient (food) flow from the mouth to the cells? A.Mouth, esophagus, small intestine, stomach, cells & bloodstream. B.Mouth, trachea, esophagus, stomach, large intestine, small intestine & colon. C.Mouth, stomach, large intestine, bloodstream & cells. D.Mouth, esophagus, stomach, small intestine, bloodstream & cells. 	 97. (9a) Which of the following is the correct pathway for the distribution of oxygen to the cells. A.Nose, esophagus, trachea, lungs, bronchi, bloodstream and cell. B.Mouth or nose, trachea, bloodstream, alveoli, cell and bronchioles C.Nose, bronchioles, trachea, bronchi, bronchioles, alveoli, bloodstream & cells. D.Mouth or nose, trachea, bronchi, bronchioles, alveoli, bloodstream & cells. 	98. 9A Removal of liquid wastes occurs in the A. Spleen B. Kidney C. Pancreas D. Liver	
99 9A Oxygen is transported from the lungs to body cells by the system A. Reproductive B. Excretory C. Respiratory D. Circulatory	 <u>100. (9a) Which of the following is the correct order of blood flow to remove liquid wastes from the body?</u> A.Nose, esophagus, trachea, lungs bronchi, bloodstream and cell. B.Cells, bloodstream, kidney, ureter and urinary bladder. C.Nose, bronchioles, trachea, bronchi, bronchioles, alveoli, bloodstream & cells. D. Cells, bloodstream, kidney, colon and small intestine. 	101. (9f) What is the purpose of the Digestive System? A. It breaks down food B.It kills bacteria ^A C. It pushes out waste D.All of the above	
102.9f) What is the mechanism that removes gas across the alveoli/capillary membrane?A. OsmosisB. Facilitated DiffusionC. Active TransportD. Simple Diffusion	Standard 10A & 10D Viruses & Bacteria 1 st Line of Defense	 <u>103. 10A The body's</u> <u>nonspecific defense against</u> <u>invading pathogens include</u> A. Killer Cells B. Antibodics C. Antibodies D. Tears, sweat, & mucus 	
104. (10a) The body's most important nonspecific defense isA.The skinImportant nonspecific defense isA.The skinImportant important important D.Permanent Immunity	105. (10a) is an enzyme found on the skin, in the saliva and in tears that kills bacteria by breaking down their cell wall.Wall.ALLERGIES?A.AntigensALLERGIES?B.AmylaseImage: C.Lysozymes D.Lysosomes	106. (10a) Which of the following is not a way that the skin acts as a nonspecific defense against disease?A.Production of sweatB.Forms an outer layerC.Production of antibodiesD.Production of lysozymes	

107. (10a) The body's firstline of defense againstdisease isA.Killer T CellsB.AntibodiesC.The skinD.InterferonE.Roving macrophages	108. (10d) Antibiotics are used to treat infectious diseases caused by A.fungiB.virusesC.bacteriaD.Bacteria & viruses	 109. (10d) What is the basic structure of a virus? A.DNA or RNA surrounded by a protein coat. B.A capsid surrounded by a protein coat C.A tail sheath surrounded by a tail fiber D.A tiny cell surrounded by a cell wall 	
<pre>110. (10d)are used to to prevent viral infection. A.Vaccines B.Antibiotics C.Antibodies D.T Cells</pre>	 111. (10d) Which of the following disease is NOT caused by a bacterium? A. Salmonella B. Tooth Decay C. Tuberculosis D. AIDS 	Standard 10B & 10C The Lines of Defense Against Viruses & Bacteria	
 <u>112. 10C Unlike passive</u> <u>immunity, in active</u> <u>immunity antibodies</u>acce <u>produced by</u> <u>A. Your own body</u> B. The mother of an infant C. Other animals D. An autoimmune disease 	113. (10b) Humoral immunity is carried out by a control of the second seco	114. (10b) The entire two headed structure "C" represent A.Antigen B.Antibody C.Killer T Cell D.Antigen binding site	
 <u>115. (10b) Which of the</u> <u>following is the function of</u> <u>antibodies in the immune</u> <u>response?</u> A.Antibodies produce antibiotics. B.Antibodies attach to antigens and attract phagocytes which engulf & destroy the antigen. C.Antibodies produce interferon. 	116. (10b) In the figure below the red bacteriumbelow the red bacteriumrepresents aA.Antigen or pathogenB.AntibodyC.Killer T CellD.Antigen binding site	117. (10c) An infectious disease is one caused by A.Heredity B.Materials in the environment C.Pathogens D.Hemophilia	
Interform118. (10c) When a person receives a vaccine, his or her bodyA.Receives antibodies against a specific pathogenB.Creates plasma cells that can produce antibodies against that specific pathogen.C.Has polio antibodies in the bloodD.Has antipolio killer T cells in blood	 119. (10c) A person who has received a vaccine against polio A.Is able to produce antibodies against polio. B.Has polio antibodies in the blood. C.Has antipolio killer T cells in blood. D.Is more susceptible to the polio virus than someone who has not had the vaccine. 	120. (10c) A vaccine contains?A.AntibodiesB.Dying or weak virusesC.antibioticsD.Fully potent fungus tissue	





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	Standards 6D, 6E & 6F	 148. 6f Only 10 percent of the energy stored in an organism can be passed on to the next trophic level. Of the remaining energy, some is used for the organism's life processes, and the rest is A. used in reproduction B. stored as body tissue. C. stored as fat. D. eliminated as heat 	 149. 6F Energy stored in organic molecules is passed from producers to consumers. This statement best describes an event in A. Ecological succession B. A food chain C. Natural selection D. photosynthesis
	 150. 6F Each level of the pyramid is smaller than the level below it because some of the matter is converted into. A.Energy lost due to movement B. waste that is retrieved to the matter is converted into. C. energy-lost due to movement D. all of the above 500 	 151. The action of a decomposer in the nitrogen cycle most directly aids in the A. Synthesis of proteins from nitrates B. Removal of nitrogen compounds from the atmosphere C. Restoration of nitrogen compounds to the soil D. Fixation of the atmospheric nitrogen 	152. The maintenance of a self-sustaining ecosystem requires a A. Soil that is acidic B. Contant temperature C. Cycling of materials between organisms and their environment D. Greater number of herbivores than producers
	 153. 6E Green algae at the beginning of a food chain are A. producers B. herbivores C. consumers D. decomposers E. both A & C 	 54. 6d Matter can recycle through the biosphere because A. Matter is passed out of bodies as waste. B. Biological Systems do not use up matter, they transform it. C. Matter is assembled into chemicals. D. Biological Systems use only carbon, oxygen, hydrogen and nitrogen. 	155. 6f A diagram showing Primary, Secondary and Tertiary consumer would show a decrease in A. the number of organisms in each tropic level. B. available energy between lower & higher trophic levels. C. available biomass between lower & higher trophic levels D. All of the above
	Standard 6C	 156. 6C There are 150 saguaro cacti plants per square kilometer in a certain area of Arizona desert. To which population characteristics does this information refer? A. Growth rate B. Age structure C. Geographic distribution D. Population density 	157. 6C When organisms move out of the population they were born in, it is known as A. emigration B. abandonment C. immigration D. succession
	 158. 6C Biotic or abiotic resources in the environment that limits the size of a population is a A. Carrying Capacity. B. Limiting Nutrient. C. Limiting Factor D. Growth factor 	 159.6C The number of organisms that an environment can support over a relatively long period of time is called A. Carrying Capacity. B. Logistic growth C. Limiting Factor D. Exponential growth 	 160.6C If a population grows larger than the carrying capacity of the environment, the A. Death rate may rise. B. Birthrate may rise. C. Death rate must fall D. Birthrate must fall

First Semester Focus on Final Study Guide Page1

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