Name:	 Hr:

Midterm MegaMatch Practice Exam

Scientific Method/Taxonomy

1)	Law	a. the variable that you add to an experiment that you want to test
2)	Hypothesis	b. what you measure in an experiment.
3)	Theory	c. a hypothesis that has been supported many times.
4)	Sample Size	d. the system of scientific naming
5)	Independent Variable	e. what you do to test a hypothesis
6)	Dependent Variable	f. descriptive information, adjectives
7)	Experiment	g. how well an experiment tests a hypothesis
8)	Binomial Nomenclature	h. the number of subjects in an experiment
9)	Qualitative	i. a unifying concept or overreaching framework that explains things
10)	Quantitative	j. an educated guess that explains a question
11)	Validity	k. data in the form of numbers

Taxonomic Category	Human Classification
Kingdom	12)
13)	Chordata
Class	14)
15)	Primate
Family	16)
17)	Homo
Species	18)

a. sapiensb. Phylumc. Anamaliad. Hominidaee. Genusf. Order

Mammalia

Chemistry Review

19)	Chemical Reaction	a. a neutral particle in the nucleus of an atom	
20)	Atom	b. what goes into a chemical reactant, left side of the equation	
21)	Proton	c. a substance made by combining two or more elements	
22)	Neutron	d. the building blocks of matter, smallest part of an element	
23)	Electron	e. a positive particle in the nucleus of an atom	
24)	Reactant	f. the study of life	
25)	Product	g. the study of the chemical reactions that occur in living things	
26)	Element	h. a negatively charged particle found outside the nucleus of an atom	
27)	Compound	i. the result of a chemical reaction, on the right side of the equation	
28)	Biology	j. the interaction between chemicals to form new substances	
29)	Biochemistry	k. atoms with the same number of protons that share similar properties	
	Characteristics of Life		
Match the	characteristic of life with the definition		
30)	Cellular Organization	a. passing on traits to your offspring	
31)	Heredity	b. being made of cells/cell theory	
32)	Reproduction	c. the ability to maintain a constant internal environment	
33)	Homeostasis	d. the sum total of all the chemical reactions in an organism	
34)	Metabolism	e. the ability to produce offspring	
Match the	characteristic of life with the example		
35)	Cellular Organization	a. a tree makes a seed, which grow into another tree	
36)	Heredity	b. you shiver because you are cold	
37)	Reproduction	c. you eat a steak, break it down, and convert it into muscle mass	
38)	Homeostasis	d. you are made of many different types of cells	
39)	Metabolism	e. dad has brown hair, he passes the gene to you, you have brown hair	
	Macromolecules		
Match the Monomer to the Polymer			
40)	Fat/Lipid	a. Amino Acids	
41)	Protein	b. Simple Sugar/Monosaccharide	
42)	Carbohydrate	c. Nucleotide	
43)	Nucleic Acid	d. Glycerol & 3 Fatty Acids	
Match the dietary sources with the macromolecule			
44)	Fat/Lipid	a. meat, nuts, eggs	
45)	Protein	b. lard, butter, oil, grease	
46)	Carbohydrate	c. ATP, DNA, RNA	
47)	Nucleic Acid	d. candy, bread, pasta	

atch the	functions with the macromolecule	
48)	Fat/Lipid	a. store genetic info, aid in protein production, ATP
49)	Protein	b. quick energy, cell wall of plants
50)	Carbohydrate	c. structural components, transport, build muscle, enzymes
51)	Nucleic Acid	d. long term energy storage, cushioning, insulation
	Cell Parts	
52)	Cell Membrane	a. aids in cell division
53)	Ribosome	b. controls the cell
54)	Mitochondria	c. protein synthesis occurs here
55)	Endoplasmic reticulum	d. part that creates energy for the cell, powerhouse
56)	Nucleus	e. breaks down bad things in the cell
57)	Lysosome	f. made of cellulose, supports plant cells
58)	Chloroplast	g. organelle that packages proteins for storage/transport
59)	Centriole	h. transport system throughout the cell, detox in liver
60)	Vacuole	i. formed from a lipid bilayer
61)	Golgi Body	j. stores water and nutrients in the cell
62)	Cell Wall	k. site of photosynthesis
	Osmosis & Diffusion	
63)	Hypotonic	a. the stuff that is dissolved in a solution
64)	Hypertonic	b. having a lower concentration of solute than its surroundings
65)	Isotonic	c. the movement of water from high to low concentration
66)	Diffusion	d. having a higher concentration of solute than its surroundings
67)	Osmosis	e. the stuff that does the dissolving (usually water)
68)	Solvent	f. having the same concentration of solute as its surroundings
69)	Solute	g. the movement of solute particles from high to low concentration
	Cell Transport	
70)	Active Transport	a. a membrane protein that identifies a cell
71)	Passive Transport	b. a cell "drinking", one form of endocytosis
72)	Endocytosis	c. a protein passage for things too large or charged, requires no energy
73)	Exocytosis	d. movement of things through the membrane without using energy
74)	Phagocytosis	e. the taking in of things by the cell, requiring energy
75)	Pinocytosis	f. a protein used to transport things against their concentration gradient
76)	Marker Protein	g. a cell "eating", one form of endocytosis
77)	Channel Protein	h. movement of things through the membrane using energy
78) 79)	Receptor Protein Protein Pump	 i. a protein that binds to hormones to relay information into the cell k. the releasing of things by the cell requiring energy
00)	Photosynthesis & Cell Respiration (Loca	•
80)	Chloroplast	a. where glycolysis and fermentation occurs
81)	Thylakoid of the Chloroplast	b. where oxidative respiration occurs
82)	Cytoplasm	c. where the light reactions occur
83)	Mitochondria	d. where the dark reactions occur
84)	Stroma of the Chloroplast	e. where photosynthesis occurs
٥٣١	Photosynthesis Reactions	a diagonomia kao dauli nagatiana
85)	Light Reactions	a. discovered the dark reactions
86)	Dark Reactions	b. aka Light Dependant Reactions, absorbs light/breaks water/makes O ₂
87)	Glucose	c. the source of electrons for the photosystems
88)	Water	d. the final product of the Calvin Cycle
89)	Carbon Dioxide	e. what gets made by the light reactions and used in the dark reactions
90)	ATP & NADPH	f. the source of carbon for glucose production
91)	Melvin Calvin	g. aka Calvin Cycle/Light Independent Reactions, makes glucose
02)	Cell Respiration Reactions	a process to regenerate NADL in animals w/o O coroness results
92) 93)	Krebs Citric Acid Cycle Alcoholic Fermentation	a. process to regenerate NAD+ in animals $w/o O_2$, soreness results b. breaking of glucose in the cytoplasm, first step of respiration
93) 94)	Lactic Acid Fermentation	c. end products of the breakdown of glucose with oxygen
9 4) 95)	Glycolysis	d. process to regenerate NAD+ in bacteria $w/o O_2$, alcohol & CO_2 made
95) 96)	Glycolysis Aerobic Respiration (Oxidative)	e. reaction where pyruvate is broken down to CO_2 in the mitochondria
96) 97)	Aerobic Respiration (Oxidative)	f. most of the ATP made here in the mitochondria, O_2 final electron acceptor
98)	Anaerobic Respiration Electron Transport Chain	g. half of a glucose produced in glycolysis
99)	Pyruvate	h. respiration in mitochondria with oxygen present
100)	Pyruvate Carbon Dioxide & Water	i. respiration in cytoplasm without oxygen present
-50)		