Science 10 Exam Review Practice Multiple Choice

1.	What is the charge of an electron? a. Positive b. Negative	c.	Neutral
2.	 What is the term for electricity that does not move? a. Static b. Current 	c. d.	Kinetic Ionic
3.	A balloon is rubbed in human hair. How will the electrons bea. Balloon to hairb. Hair to balloon	tran c.	sferred? Electrons will not move
4.	Positive Charges attract charges. a. Positive b. Negative	c. d.	Neutral Both positive and negative
5.	When an object is charged without touching, it is said to be cha. Frictionb. Contact	arge <mark>c.</mark> d.	d by: Induction Static
6.	Electrons can move the easiest through which of the following a. Bread b. Copper	g mat c. d.	terials? Hair Plastic
7.	 What is the name for the material that does not allow electrons a. Insulator b. Conductor 	s to e c. d.	easily travel through it? Terminator Ammeter
8.	Electric potential is known as: a. Current b. Resistance	c. <mark>d.</mark>	Circuitry Voltage
9.	What device measures the electrical energy in a circuit?a. Ammeterb. Thermometer	c. d.	<mark>Voltmeter</mark> Ohmmeter
10.	 Which of the following measures the electric current in a circu a. Ammeter b. Thermometer 	uit? c. d.	Voltmeter Ohmmeter
11.	In a circuit, what is another name for a light bulb?a. Power sourceb. Conductor	c. <mark>d.</mark>	Switch Load
12.	A battery consists of two or more in series. a. Cells b. Light bulbs	c. d.	Ammeters Switches
12	A girauit contains three light hulbs in series. Where should a		b ha places to turn all the light

13. A circuit contains three light bulbs in series. Where should a switch be places to turn all the lights on or off?Next to the first light bulbc. Next to third light bulb

a.	Next to the first light bulb	c.	Next to third light bulb
b.	Next to the second light bulb	d.	Anywhere in the circuit

14. Two identical light bulbs are connected in series. How will the brightness of those lights change if another identical bulb is added in series.

a. Lights will get brighter

b. Lights will get dimmer

- c. Brightness will not change
- 15. Two identical light bulbs are connected in parallel. A third identical light is connected in parallel. Theoretically, how will the brightness of the original lights change?
 - a. Lights will get brighter

b. Lights will get dimmer

c. Brightness will not change

16. Using Ohm's law, what is the current drawn from a 12V battery if the circuit contains 5.5 Ohms of resistance?					
a. 6.5A b. 66A	c. 0.46A d. 2.18A				
17. A 2.3A current is drawn from a 24V battery. What is the resisa. 10.4 ohms	tance in the circuit? c. 0.095 ohms				
b. 55.2 ohms	d. 21.7 ohms				
18. In 1997, <i>Thrust SSC</i> , the world's fastest jet-engine car, travele length of time it took in <u>minutes</u> was:	d 608m at an average speed of 350m/s. The				
a. 104.4 b. 1.7	d. 0.028				
19. The area under a velocity-time graph represents?					
a. Slope b. Distance	d. Acceleration				
20. Given the following number: 234506 which of the following is	s correctly rounded to 3 significant digits. 224				
a. 234 000 b. 235 000	d. 23500				
21. An object travels equal amounts of distance in equal amounts	of time. This is an example of				
a. Average accelerationb. Average speed	 c. Constant acceleration d. Constant speed 				
22. A car travels 275 km in 3.5 hours. What is the average speed	of the car?				
<mark>a. 78.6 km/h</mark> b. 271.5km/h	c. 0.013km/h d. 962.5km/h				
23. How much time does it take a car driving 32m/s to drive 272m	n?				
a. 8704s b. 0.12s	<mark>c. 8.5s</mark> d. 240s				
24. A cart rolls down a hill and accelerates at 3.5m/s ² for 8.0s. If speed?	the initial speed was 3.0m/s what is its final				
a. 35m/s b. 28m/s	c. 25m/s d. 31m/s				
25. What is the acceleration of an object that goes from 15m/s to 6 the unit m/s^2 ?	52m/s in 11.8s? (note that all the answers have				
a. 6.5	c. 20.2				
0. 4.0	$(2^{2})^{2}$				
26. What was the initial speed of an object that accelerated at 5.5m 185m/s?	n/s ⁻ for 25 seconds to reach a final speed of				
<mark>a. 47.5m/s</mark> b. 322m/s	c. 0.0m/s d. 1.3m/s				
27. How many seconds are required for a car to go from 12m/s to	42m/s under an acceleration of 5.0m/s ² ?				
a. 0.17s b. 11s	<mark>c. 6.0s</mark> d. 150s				
 28. The average speed and the instantaneous speed will be the sam a. an average speed taken at the bottom of an incline as a instantaneous speed taken when he reaches the top of t b. any point as a leaf is falling from a tree to the ground c. a car traveling at 80km/h d. a car traveling at 60km/h and then speeding up to 80 kg 	ne in which one of the following examples? skateboarder travels up the incline and the he incline				
29. Using the precision rule what would be the correct answer to t	he following question:				
$5.55 m \pm 10.0 m = 6.565 m$					

		5.55 m	12.0 m	- 0.50	JJ III		
a.	11.785					c.	<u>11.8</u>
b.	11.79					d.	11.7

30. Given the following graph what does it represent?	
a. Increasing Speed	
c. Increasing acceleration	
d. Zero acceleration	→
t 31. This is a possible unit for acceleration km/h^2	h False
	0. Parse
32. Compounds held together by ions are called compo	ounds.
a. Molecular	c. Weak
b. Super	d. Ionic
33. How many electrons in the valence shell of fluorine?	
a. 1	<mark>c. 7</mark>
b. 4	d. 8
34. Molecular compounds are formed when elements	
a. Exchange protons	c. Share electrons
b. Exchange electrons	d. Share protons
25 What is the same of this second and CoCl	
35. What is the name of this compound: $CaCl_2$	c Calcium chloride
b. Calcium chlorine	d. Monocalcium dichloride
36. Is this the chemical formula for aluminum fluoride: Al_2F_3	
a. True	b. False
37. Is this the chemical formula for dinitrogen hexaoxide: N_2O_5	
a. True	b. False
38. What is the name for this compound: SO_3	a Sadium nantaavida
b Sulfur trioxide	d Sulfur oxide
39. Is this the formula for magnesium oxide: Mg_2O_2	
a. True	b. False
40. How many electron(s) does bromine want to gain?	
a. 1	c. 3
b. 2	d. 4
41 The set of elements contain only metals is:	
a. Mg. Fe. N	c. Na. K. Zn
b. Ca, K, Br	d. Ba, O, Br
42. What types of bonds are formed between two non-metals?	c Ionic
b. Molecular	d. Shared
43. In a chemical change the substance changes its:	C1
a. Composition b. Size	c. Shape
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44. An atom becomes an ion with a charge of -2 when it:	
a. Gains 2 protons	c. Loses 2 electrons
b. Loses 2 neutrons	d. Gains 2 electrons
45. The most unreactive group of elements can be found in group	
a. 17	c. 2
b. 1	d. 18

46. What type of reaction is represented by the following chemical equation? Na + Br₂ → NaBr₂
a. Decomposition
b. Combustion
c. Synthesis
d. Single Replacement

47. Which of the following is a product in all combustion reactiona. Hydrogenb. Carbon	ns? c. Carbon dioxide d. Carbon monoxide
48. What type of reaction is represented by the following chemicaa. Synthesisb. Decomposition	al equation? $Ca_3(PO_4)_2 \rightarrow Ca + PO_4$ c. Single replacement d. Double replacement
49. Which of the following is in the orbit around the nucleus:a. Protonsb. Neutrons	c. Electrons
 50. Which one of the following in an example of a change of stat a. Salt is dissolved in water b. An ice cube melts c. An ice cube is broken into many pieces d. Sodium and chlorine combine to produce table salt 	e?
51. Fungi like mushrooms are an example of:a. Producerb. consumerc. decompose	er d. herbivore
52. Which of the following is an example of a carnivore?a. Treeb. hawkc. model	buse d. flower
53. An omnivore eats ONLY plantsa. Trueb. False	
54. Which of the following describes a group of all the same spectrum.a. Communityb. populationc. ecosystem	cies living in a specific area? d. biome
55. The area where an animal does its living is considered its:a. Nicheb. habitatc. ho	use d.ecosystem
56. A plant is considered to be a:a. Consumerb. herbivorec. producer	d. omnivore
57. An ecosystem describes the interactions that occur between oa. Trueb. False	organisms and their environment:
58. Which of the following describes an animal which eats only pa. Vegetarianb. veganc. producer	plants d <mark>. herbivore</mark>
59. A consumer describes an animal that is not able to make its oa. Trueb. False	wn food.
60. Which of the following describes an animal that no longer exa. Endangeredb. threatenedc. extinct	ists anywhere in the world? d. extripated
61. A habitat describes how an animal lives:a. Trueb. False	
62. An animal that no longer exists in one area of the country, bua. Endangered b. extripated c. threatened	at still exists in others is considered: d. extinct
63. A food chain is a complex web of animals and plants showinga. Trueb. False	g various options for what eats what.
64 An example of an autotroph would be a deer	

a. True b. False

65. Which of the following describes a group of different species all living in one area?							
	a.	Community	b. population	c. biome	d. ecosystem		
66.	The a	atlantic salmon is con <mark>True</mark>	nsidered an endangered b. False	1 species:			
67.	How	much energy is lost	as you move through a	a food chain or web?			
	a.	10%	<mark>b. 90%</mark>	c. 80%	d. 15%		
68.	Whie	ch of the following a	reas would have the gr	eatest biodiversity?			
	a.	Forest grassland eco	otone	c. Gra	assland ecosystem		
	b.	Forest ecosystem		d. Lal	ke ecosystem		
69.	An o a.	rganism that is NOT Omnivore	able to use its own en b. heterotroph	ergy to make food is c. autotroph	called: d. producer		
70.	Whie	ch of the following is	s an example of an abio	otic factor in an ecosy	vstem?		
	a.	Mouse	b. rabbit	c. daisy	d. sunlight		
71. If the population of insects in a population decreases the frog population would increase:a. Trueb. False							
72. The grey fox is at risk of declining numbers at the fringe of its range or in some restricted area. It is:a. Extirpated b. endangered c. vulnerable d. threatened							
 73. Populations of native species in the Great Lakes have suffered from the introduction of exotic species that causes difficulties most often because they: a. Cause changes in water temperature b. Increase the population of algae through the addition of nutrients c. Interfere with the food chain by competing for sources of food d. Lower the water level of the lakes 							

- 74. Select the correct order from the following choices. From simplest to most complex

 a. ecosystem, population, community, organism
 b. organism, population, community, ecosystem
 c. population, organism, ecosystem, community
 d. community, population, organism, ecosystem