Science Reviewer - Set C

1.	A mixture that is formed when one substance dissolves into another is called a		
	a.	solute	
	b.	solvent	
	c.	solution	
	d.	compound	
2.	Steel i	s an example of a	
	a.	colloid	
	b.	compound	
	c.	solution	
	d.	suspension	
3.	Three	beakers contain a solution, a colloid, and a suspension, but you don't know	
	which is which. You notice that in one of the beakers, particles have settled at the		
	botton	n. This must be the	
	a.	colloid	
	b.	solution	
	C.	suspension	
4.	This is	a type of mixture where liquid or solid particles are dispersed in a gas.	
	Examp	oles include fog, mist, and smoke.	
	a.	emulsion	
	b.	aerosol	
	c.	gel	
	d.	foam	
5.	At con	struction sites, stones and all sorts of debris can get mixed into the sand. To	
	get the	e stones out, construction workers often use which separation technique?	
	a.	sieving	
	b.	evaporation	
	c.	decantation	
	d.	distillation	

6.	When you dry your clothes by spinning them in the washing machine, you are using a separation technique called centrifugation. But when you dry the clothes by hanging them outside, on a clothesline, under the heat of the sun, you are using which separation technique? a. still centrifugation b. filtration c. evaporation d. distillation
7.	Archaea were previously thought to be bacteria but scientists have since discovered that their DNA have distinct differences. In which of these ways are bacteria and archaea different?

- a. The absence of a nucleus
- b. The number of cells composing each organism
- c. The ability to reproduce asexually
- d. The presence of peptidoglycan in their cell walls
- 8. Which of these statements is incorrect?
 - a. A molecule is a combination of two or more atoms.
 - b. A molecule that consists of more than one element is called a compound.
 - c. The oxygen in the air we breathe $-O_2$ is a compound.
 - d. Carbon dioxide CO_2 is a compound.
- 9. The enzymes and antibodies in our bodies are examples of ____.
 - a. carbohydrates
 - b. lipids
 - c. proteins
 - d. nucleic acids
- 10. The building blocks of proteins are called _____.
 - a. amino acids
 - b. monosaccharides
 - c. fatty acids
 - d. nucleotides
- 11. Which is correct?
 - a. Cell > organ > organelle > organ system > organism
 - b. Cell > tissue > organ > organ system > organism
 - c. Cell > organ > organ system > tissue > organism
 - d. Cell > organelle > organ > organ system > organism

12. The following are present in eukaryotic cells and absent in prokaryotic cells		
EXCEF	nucleus	
	mitochondria	
	ribosomes	
C.		
u.	Golgi apparatus	
13. Which	organelle is covered with ribosomes and is involved in the processing of	
proteir	n?	
a.	Nucleus	
b.	Mitochondria	
C.	Ribosomes	
d.	Rough endoplasmic reticulum	
14. Which organelle is in charge of producing and assembling ribosomes?		
a.	Smooth endoplasmic reticulum	
b.	Golgi apparatus	
C.	Lysosome	
d.	Nucleolus	
15. Photos	synthesis is the process by which plant cells convert into chemical	
energy	y in the form of glucose.	
a.	hydrocarbons	
b.	the sun's energy	
C.	water and oxygen	
d.	nitrogen, phosphorus, and potassium	
16. The nu	umber of calories in food indicates	
a.	the vitamin content in the food	
b.	the weight of the food per unit volume	
C.	the amount that can be digested from the food	
d.	the amount of energy that can be obtained from the food	
17. Sugar	and starches are	
a.	fats	
b.	proteins	
C.	minerals	
d.	carbohydrates	

18. Comple	ex carbohydrates are larger than simple carbohydrates like glucose. Our
bodies	break them down more slowly compared to simple carbohydrates. They can
give us	energy more steadily and for a longer period of time. This is why it is better if
the car	bohydrates in our food are complex carbohydrates. The following are
comple	ex carbohydrates except
a.	starch
b.	fiber
c.	galactose
d.	none - all are correct
19. The fol	lowing are rich in protein, except
a.	lean meat
b.	banana
C.	peanut butter
d.	sea food
This ty health. normal sold in a. b. c. d.	nsaturated fats are "healthy" or "good" fats. An exception to this is pe of fat increases our risk of heart disease and provides no benefits to our Unfortunately, this is the type of fat that is commonly found in foods we ly like, such as french fries, microwave popcorn, doughnuts, and baked goods stores, such as cakes and cookies. saturated fat unsaturated fat trans fat none of these
-	on begins in the
	mouth
	esophagus
	stomach
d.	small intestine
22. The pro	ocess of breaking down food into absorbable nutrients is called
	respiration
b.	digestion
C.	absorption
	nutrition

23. An en:	zyme is a protein that speeds up chemical reactions in the body. Digestive
enzym	es play a huge role in which type of digestion?
a.	mechanical digestion
b.	chemical digestion
C.	both
d.	neither
24 \\/\+	to use of disposition becomes in the use who
	type of digestion happens in the mouth?
a.	
	chemical digestion
C.	
d.	neither
25. Chewi	ng is part of
a.	chemical digestion
b.	enzymatic digestion
C.	mechanical digestion
d.	cellular digestion
26 Most o	of the work of chemical digestion takes place in the
	mouth
	small intestine
	stomach
a.	large intestine
27. The la	ter parts of the small intestine are covered by millions of tiny projections
called	, which have blood vessels through which nutrients are absorbed.
a.	cilia
b.	villi
C.	glands
d.	nodes
28. To get	food into your body, your mouth needs to open. Which organ system helps
with tl	
	muscular system
	nervous system
	skeletal system
	all of these
u.	

29.	food, a the bra digest a. b. c.	your stomach is full, it tells your brain that you have already had enough and you stop eating. When your stomach and intestines are empty, they signal ain that you need food, and so you start to feel hungry. This shows how your ive system works together with which other system? lymphatic system nervous system respiratory system urinary system
30	Which	organ is part of the excretory system?
-		lungs
		skin
	c.	kidneys
	d.	all of these
31.	reasor a. b. c.	forms a physical barrier between the body and the outside world. For this i, it is the body's first and most important line of defense against infection. white blood cells muscles skin
	d.	lymph nodes
32.	Lysozy	mes are chemicals that can kill pathogens. They are found in all of the
	follow	ing, except
	a.	sweat
	b.	tears
	C.	saliva
	d.	none - all are correct
33.	"eat" p	are certain kinds of white blood cells that go to areas of inflammation and athogens, foreign particles, and dead cells. In this way they are able to help dy eliminate these unwanted "invaders." The cells that do this are called
	a.	lysozymes
	b.	erythrocytes
	c.	myocytes
	d.	phagocytes

34. An	is a molecule that the immune system identifies as foreign and responds to	
by forming antibodies.		
a.	antibiotic	
b.	antigen	
C.	allele	
d.	amylase	
35. The fo	llowing are parts of the appendicular skeleton except	
a.	carpals	
b.	ribs	
C.	tarsals	
d.	ulna	
36. How n	nany bones does the adult human skeleton have?	
a.	164	
b.	206	
c.	256	
d.	408	
37. The	is the tough, fibrous membrane that covers and protects the outer surface	
of bon	es.	
a.	periosteum	
b.	endosteum	
C.	epiphysis	
d.	bone marrow	
38. Which	statement is true?	
a.	Bones stop growing in length during early adulthood.	
b.	Bones can continue to increase in thickness throughout life.	
C.	Both	
d.	Neither	
39. A brea	ık in a bone is called a	
a.	sprain	
b.	strain	
c.	fracture	
d.	dislocation	

40. Joint	s are classified based on either (1) the kind of tissue that they have, or (2) how
mucl	n movement they allow. The following are the types of joints based on tissue
type	except
а	. fibrous
b	. cartilaginous
C	. ligamentous
C	. synovial
41. Our	shoulder joints are
а	. fixed joints
b	. partly movable joints
C	. movable joints
C	. fibrous joints
42. The	type of movable joint that only allows rotating movement is the An
exan	nple of this is the joint between your radius and your ulna, the two bones in
your	forearm. Movement at this joint allows you to flip your palm over without
havir	ng to move your elbow joint.
а	. ball-and-socket joint
b	. hinge joint
C	. pivot joint
C	. gliding joint
43. The	elbow is a
а	. ball-and-socket joint
b	. hinge joint
C	. pivot joint
C	. gliding joint
44. Ther	e are three different types of muscles in our body. The type of muscle found
with	n the walls of organs and blood vessels is the They work automatically
with	out us being aware of them and so they are also known as involuntary muscles
а	. skeletal muscle
b	. smooth muscle
C	. cardiac muscle
C	. none of these

45. When muscl	es contract, they pull on the tendons, which in turn pull on the In
this way, the	pull of contracting muscles allows you to move.
a. bone	
b. nerve	
c. skin	
d. joint f	luid
46. The muscle t	hat contracts to cause a joint to bend is called the
a. exten	sor
b. flexor	
c. agoni	st
d. antag	onist
	voluntary, and often painful contraction of one or more of your muscles It is also called a "muscle spasm."
a. cramp	
b. sprair	1
c. strain	
d. contu	sion
48. The outermo	st layer of the skin is the
a. dermi	S
b. epide	rmis
c. extrac	dermis
d. hypod	dermis
49 is the p	oigment in our skin that, like a natural sunblock, helps protect us from
harmful ultra	violet light. It is brown and is responsible for the color of our skin and
hair.	
a. Niacir	١
b. Melar	nin
c. Tanni	n
d. Caffei	ine
50. True or False	– There are no nerve endings in nails.
a. true	
b. false	

51. What	does the dermis do?
a.	Keeps skin strong and flexible thanks to its collagen and elastin
b.	Grows hair
C.	Produces sweat and oil
d.	All of these
52. The	are grape-like air sacs in the lungs where the exchange of oxygen and
carbo	n dioxide takes place.
a.	alveoli
b.	bronchi
C.	bronchioles
d.	diaphragm
53. How r	many chambers does the human heart have?
a.	2
b.	3
C.	4
d.	6
54. Which	n statement is correct?
a.	Sensory neurons carry messages from the brain to the effector organs.
b.	Motor neurons carry messages from receptor organs to the brain.
C.	Interneurons connect sensory and motor neurons in the peripheral nervous
	system.
d.	None - all are incorrect
55. These	are the main parts of a neuron, except:
a.	cell body
b.	dendrites
C.	axon
d.	myofibrils
56. The p	lace where the axon of one neuron meets the dendrites of another neuron is
called	the
a.	synapse
b.	node of Ranvier
C.	neural junction
d.	myelin sheath

57. The is the largest and top-most part of our brain. It controls functions to	nat we
are aware of, such as voluntary movements, language, and problem-solving.	
a. cerebrum	
b. cerebellum	
c. brainstem	
d. pons	
58. The lobe of the brain most involved in reasoning, learning, voluntary motion,	and
"executive functions" like self-control and attention is the	
a. frontal lobe	
b. parietal lobe	
c. temporal lobe	
d. occipital lobe	
59. The part of the peripheral nervous system that is responsible for movements	within
our control is the	
a. autonomic nervous system	
b. sensory nervous system	
c. somatic nervous system	
d. voluntary nervous system	
60. Which is not a part of the urinary system?	
a. kidneys	
b. ureters	
c. gall bladder	
d. urethra	
61. Where does the ureter lead to?	
a. kidney	
b. urinary bladder	
c. urethra	
d. uterus	
62. Our kidneys help us maintain homeostasis. Which statement about what our	
kidneys do is incorrect?	
a. They regulate the amount of water in our body.	

d. They excrete harmful nitrogen-containing molecules, such as urea, ammonia,

b. They pause filtration when we sleep to conserve energy.c. They maintain the balance of salt ions in our body fluids.

and uric acid.

63. C	roco	diles are
	a.	amphibians
	b.	cnidarians
	c.	flightless birds
	d.	reptiles
64. V	Vhich	pairing is incorrect?
	a.	Crabs - arthropods
	b.	Snails - mollusks
	c.	Tapeworms - nematodes
	d.	None - all are correct
65. A	\ ferti	lized egg is called a
	a.	ovum
	b.	zygote
		embryo
	d.	fetus
66. T	hese	specialized plant structures are horizontal stems that grow along the surface
		soil. When they make proper contact with a moist soil surface, roots can grow
f		heir nodes.
	a.	rhizomes
		runners
		suckers
	d.	tubers
67. lı	n this	method of propagation, a portion of the stem, root, or leaf is cut and planted
t	o dev	elop into a new plant.
	a.	cutting
	b.	grafting
	c.	layering
	d.	marcotting
		ators such as bees drink nectar from flowers and, as they move around, carry
		from the male part of the flower to the female part of the same or another
f	lower	. This is an example of which type of relationship?
	a.	commensalism
	b.	competition
	C.	mutualism
	d.	parasitism

69. Energy usually enters ecosystems as:

- a. stored energy in plants
- b. chemical energy in nutrients
- c. mechanical energy from the wind
- d. sunlight

70. Which of the following is not found in the nucleus of an atom?

- a. proton
- b. electron
- c. neutron
- d. none they're all located in the nucleus

71. Which of these statements is false?

- a. Protons have an electric charge of +1.
- b. Electrons have an electric charge of -1.
- c. Atoms have the same number of protons and electrons.
- d. Because the nucleus has a greater mass, atoms have an overall positive charge.

72. Which of these statements is true?

- a. Friction opposes the motion of objects.
- b. Friction can occur even between surfaces that are not in contact with each other.
- c. Friction acts in the same direction as the object's motion.
- d. Friction speeds up the movement of objects.

73. Which statement is correct?

- a. The smaller the surface area of the objects in contact with each other, the greater the friction and the longer the distance travelled.
- b. The smaller the surface area of the objects in contact with each other, the greater the friction and the shorter the distance travelled.
- c. The bigger the surface area of the objects in contact with each other, the greater the friction and the longer the distance travelled.
- d. The bigger the surface area of the objects in contact with each other, the greater the friction and the shorter the distance travelled.

move	is
a.	electrical energy
b.	nuclear energy
C.	radiant energy
d.	mechanical energy
75. When	you light a candle, which energy transformation takes place?
a.	light \rightarrow chemical and heat
b.	light \rightarrow mechanical and heat
C.	chemical \rightarrow light and heat
d.	chemical \rightarrow electrical and heat
	e one of the students assigned to raise the Philippine flag during your school's eremony. What simple machine are you using to pull it up?
a.	inclined plane
b.	lever
C.	pulley
d.	wedge
77. The fix	ked point of a lever is known as the
a.	load
b.	force
C.	fulcrum
d.	pivot
78. The de	ensity of an object is equal to the ratio of its mass to its volume. An object can
float ir	water if its density is less than 1 g/cm 3 . What will happen if a 1 cm x 2 cm x
3 cm p	siece of aluminum with a mass of 16 grams is placed in a swimming pool?
a.	It will sink.
b.	It will float.
C.	It will float but be partially submerged in water.
d.	It will dissolve.
79. A mat	erial is said to be transparent if
a.	it reflects light
b.	it emits light
C.	light can pass freely through it in a straight line
d.	it absorbs light and redistributes the energy as heat

74. The type of energy that is found in objects that are moving or have the potential to

\sim	VA/III		•	-	
\times 0	W//hich	statement	10	ta	100/
oo.	V V I IICI I	Statement	13	ı u	LJC:

- a. Wave frequency is the number of waves that pass a fixed point in a given amount of time.
- b. Wavelength is the distance between corresponding points of adjacent waves.
- c. The lower the frequency, the lower the wavelength of an electromagnetic wave, and the less likely it is to be harmful.
- d. High-frequency waves have a lot of energy and are more likely to be harmful.

81. Radar uses which type of electromagnetic wave	81.	Radar	uses	which	type (of ele	ectroma	agnetic	wave
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- a. ultraviolet
- b. microwaves
- c. X-rays
- d. gamma rays

82. Which of these statements is false?

- a. X-rays have enough energy to pass through soft tissues such as skin.
- b. X-rays cannot pass through bones and teeth.
- c. X-rays have the highest energy among all electromagnetic waves.
- d. You should limit your exposure to X-rays because they can be harmful.

83.	When light is,	it changes direc	tion as it pas	sses into a	new medium	and
	changes speed.					

- a. reflected
- b. refracted
- c. absorbed
- d. transmitted

84	Opaque	matter n	nav do al	I of the fol	lowing except	
\cup	Obaduc	HIIALLEI H	iav uo ai	L OI LIIC IOL	LUVVIIIU ENCEDL	

- a. absorb light
- b. reflect light
- c. a combination of absorption and reflection
- d. transmit light without scattering it

85. At which time of the day would you have the shortest shadow?

- a. morning
- b. noon
- c. afternoon
- d. evening

86	is the transfer of light energy to materials rather than being reflected or
transı	nitted.
a.	Absorption
b.	Infraction
c.	Reflection
d.	Refraction
87. Whic	h of the following statements is correct?
a.	Magnets do not have force.
b.	Paper can be attracted by magnets.
C.	All metals can be attracted by magnets.
d.	The push and pull of magnets is called magnetic force.
	ransfer of heat energy through direct contact between the heat source and er object is called
a.	conduction
b.	convection
C.	radiation
d.	insulation
89. This r	method of heat transfer does not depend on the presence of matter to transfer
heat.	
a.	conduction
b.	convection
C.	radiation
d.	insulation
90. A ma	terial that does not allow electricity to pass through it is called a
a.	conductor
b.	electrode
C.	insulator
d.	radiator
91. A circ	uit in which components are connected across each other, providing multiple
paths	for current
a.	open circuit
b.	closed circuit
C.	parallel circuit
d.	series circuit

- 92. A device made temporarily magnetic by electricity
 - a. electromagnet
 - b. ferrovoltaic device
 - c. magnetometer
 - d. solenoid
- 93. A ____ is a crack in the Earth's crust between two big plates.
 - a. breaking point
 - b. focus
 - c. epicenter
 - d. fault
- 94. An earthquake triggered by human activity such as massive explosions and fluid injection or extraction, also known as induced seismicity
 - a. tectonic earthquake
 - b. volcanic earthquake
 - c. endemic earthquake
 - d. man-made earthquake
- 95. The seasons in the Philippines are caused by:
 - a. its location on the equator
 - b. prevailing winds
 - c. both
 - d. neither
- 96. Which is also known as the Hanging Habagat?
 - a. northeast monsoon
 - b. northwest monsoon
 - c. southwest monsoon
 - d. southeast monsoon
- 97. Which of the following is the effect of the Earth's tilt and revolution?
 - a. movement of wind
 - b. occurrence of tides
 - c. occurrence of seasons
 - d. movement of water in seas

- 98. How much time would it take for the Earth to complete one revolution?
 - a. 7 days
 - b. 30 days
 - c. 24 hours
 - d. 365 1/4 days
- 99. Which statement is false about the Earth's orbit?
 - a. The Earth's orbit is slanted 23.5 degrees.
 - b. An orbit is an elliptical path around the sun.
 - c. An orbit is an imaginary route of the Earth around the sun.
 - d. As the Earth spins on its axis, it also travels around its orbit.
- 100. Which of the following statements describe the outer planets?
 - a. They are large and made of rocks.
 - b. They are small and made of ice and gas.
 - c. They are large and made up mostly of gas.
 - d. They are solid and made up of rocks and metals.
- 101. Which of the following planets is farthest from the Sun?
 - a. Venus
 - b. Jupiter
 - c. Uranus
 - d. Neptune
- 102. Which of the following are the inner planets?
 - a. Mercury, Venus, Earth, Mars
 - b. Venus, Mars, Saturn, Uranus
 - c. Earth, Jupiter, Uranus, Neptune
 - d. Jupiter, Saturn, Uranus, Neptune
- 103. Which statement is false?
 - a. The inner planets are smaller than the outer planets.
 - b. The outer planets are bigger than the inner planets.
 - c. The inner planets have average temperatures above 0°C while the outer planets have average temperatures below 0°C.
 - d. None of the above

	a.	The atmosphere of Venus is mostly carbon dioxide.
	b.	The atmosphere of Mercury is mostly nitrogen.
	c.	The atmosphere of Earth is mostly oxygen.
	d.	The atmosphere of Saturn is mostly helium.
105.	Ter	m used to describe the moon when less than half of it is illuminated, but not
	tota	ally dark
	a.	crescent
	b.	gibbous
	c.	waning
	d.	waxing
106.	A c	onstellation is a group of visible that appear to form a pattern when
	viev	wed from Earth.
	a.	lights
		planets
	C.	comets
	d.	stars
107.	Wh	nich gas powers the nuclear reactions within stars that make them shine
	brig	htly?
	a.	carbon
	b.	hydrogen
	c.	helium
	d.	oxygen
108.		is the process by which water vapor (gas) changes into tiny droplets of
	liqu	id water in the atmosphere.
	a.	Evaporation
	b.	Condensation
	c.	Precipitation
	d.	Respiration
109.	Clo	uds that tend to produce precipitation
	a.	cirrus
	b.	cumulus
	C.	nimbus
	d.	stratus

104. Which statement correctly describes the atmosphere of each planet?

- 110. This refers to the amount of moisture in the air. a. humidity b. pressure c. temperature d. weather 111. Which of these weather instruments indicates the direction of the wind? a. anemometer
- - b. barometer
 - c. hygrometer
 - d. wind vane
- 112. Which of the following statements is false?
 - a. Tropical cyclones that form in the Atlantic and Eastern Pacific Oceans are called hurricanes.
 - b. Tropical cyclones that form in the Western Pacific Ocean are called typhoons.
 - c. The source of heat of tropical cyclones is warm air from the ocean.
 - d. None all are correct.
- 113. The particles of this type of soil are coarse and loose.
 - a. clay
 - b. loam
 - c. humus
 - d. sand
- 114. The upper layers develop from this layer.
 - a. topsoil
 - b. subsoil
 - c. parent rock
 - d. bedrock
- 115. The transfer of solid and rock fragments from one place to another
 - a. erosion
 - b. siltation
 - c. sedimentation
 - d. weathering

ANSWER KEY

1. c	26. b	51. d	76. c	101. d
2. c	27. b	52. a	77. c	102. a
3. c	28. d	53. c	78. a	103. c
4. b	29. b	54. d	79. c	104. a
5. a	30. d	55. d	80. c	105. a
6. c	31. c	56. a	81. b	106. d
7. d	32. d	57. a	82. c	107. b
8. c	33. d	58. a	83. b	108. b
9. c	34. b	59. c	84. d	109. c
10. a	35. b	60. c	85. b	110. a
11. b	36. b	61. b	86. a	111. d
12. c	37. a	62. b	87. d	112. d
13. d	38. c	63. d	88. a	113. d
14. d	39. c	64. c	89. c	114. c
15. b	40. c	65. b	90. c	115. a
16. d	41. c	66. b	91. c	
17. d	42. c	67. a	92. a	
18. c	43. b	68. c	93. d	
19. b	44. b	69. d	94. d	
20. c	45. a	70. b	95. c	
21. a	46. b	71. d	96. c	
22. b	47. a	72. a	97. c	
23. b	48. b	73. d	98. d	
24. c	49. b	74. d	99. a	
25. c	50. a	75. c	100. c	