## 2021-2022 TMSCA Elementary Science Test - BANA

1. Grasslands, also ki	-			ntral part o	of the contin	nents. What
would be a reasonable	_					
A. Grasslands grow i		_				
B. Prairies will only	=					
C. Soils in the central	l part of the con	tinents ha	ve high alkaline	soils.		
D. The central part of	f the continents	tends to b	e drier and provi	de the rigl	ht condition	ns for grasses.
2. Underground layer	-				lled what?	
A. water tables	B. aquifers	C.	artesian springs	3	D. hydro	tanks
3. Presence or absence them a what?	ce of beavers in	an ecosys	tem can greatly a	affect othe	er wildlife.	This makes
A. pioneer species	B. threatened	species	C. keystone spo	ecies	D. ecto	therm species
4. Sarah was talking confused, so Sarah ex A. baker	plained that "ar	ngler" mea				
		-	2 11 8	8 - · r		
5. What element has	an atomic numb					
A. Fe B. Iro	n	C. both A	and B	D. Al	luminum	
6. A cactus is adapted prevents what?	d to live in a des	sert enviro	nment. One ada	ptation is	its waxy cu	ticle which
A. water loss	B. animal pred	dation	C. photosy	nthesis	D. extra	growth
7. A community of o is called what?	rganisms and th	eir physic	al environment t	hat is four	nd around a	body of water
A. tundra	B. taiga	C.	aquatic ecosyst	em	D. pond	
8. Jenny's neighbor i water to the air so tha				•	•	•
A. aeration	B. buffer	C.	eutrophication		D. lentic	
9. Round areas in the wetlands called what?		Texas fill	with water when	it rains.	These beco	me temporary
A. oxbow lakes	B. playa lakes	C.	lagoons	D. es	tuaries	
10. If you cross a hor	se with a donke	ey, the offs	pring will be wh	at?		
A. a mule	B. sterile	C.	Both A and B	D. tha	at is imposs	sible

A. grow taller to B. grow well in C. be able to to D. have thin least	o get to the su shade lerate high te	ınlight or they				
eating?		•			e do	es it spend most of its time
A. pupa I	B. adult	C. larva	D.	egg		
	ne following s B. 5	hould be close C. 7	to tl D.	he pH of tap water 10	?	
14. What part of A. east	of Texas has the B. central	he most karst ro C. far south	_			
15. What event A. solar eclipse		en Earth's shade ar eclipse		falls on a full moon constellation		supernova
<ul><li>16. A group of</li><li>A. satellite syst</li></ul>	_			ogether by gravity galaxy		lled what? Oort cloud
the most permea	able?			-		rs. Which soil type below is
A. clay	B. loa	m	C.	sand	D.	gravel
	_			d off a high line wi		It flew after the other bird hat?
A. courtship be	havior	B. submission	n	C. migration		D. aggression
19. Which orga A. scorpions	nism below h B. fire			nunication called bi Both A and B	iolur	ninescence? D. bats
20. What is the A. speed = dista B. speed = time C. speed = time D. speed = dista	ance travelled e travelled/dis travelled x di	l/time to travel tance travelled stance travelle	that d	•		
21. The tendence is known as what A. speed	at?	et to stay at rest		n motion unless ac	eted 1	upon by an unbalanced force  D. 3 <sup>rd</sup> Law of Motion

•	•	vation of these listed?	
A. San Antonio	B. Houston	C. Fort Davis	D. Amarillo
23. Segmented wor	ms belong to what a	nimal Phylum?	
A. Chordata	B. Annelida	C. Cnidaria	D. Echinodermata
24. Which of these	would be attracted to	n a magnet?	
		aluminum paper clip	D. Both A and C
		block would float in plant	
A. balsa wood (.11 g	/cm <sup>3</sup> ) B. PET plast	ic (1.38 g/cm <sup>3</sup> ) C. coppo	er (8.96 g/cm <sup>3</sup> ) D. marble (2.7 g/cm <sup>2</sup>
26. Which of the following	llowing is a produce	r?	
A. frog	B. tadpole	C. salamander	D. duckweed
27			
A. 200	B. 300	e found in a human infa C. 50	nt at birth? D. 400
A. 200	<b>D.</b> 300	C. 50	D. 400
28. Nellie wanted to	identify a tree in he	er yard. What could she	use to do this?
A. tree dichotomous	s key B. tape meas	c. stump g	rinder D. increment borer
-		e ovary is called what?	D 1.11
A. stamen	B. anther	C. petals	D. pistil
30. Which of these	is equal to this numb	per in this scientific nota	ation? $3.4 \times 10^7$
A. 3,400	B. 34 thousand	C. 34 million	D. 34 billion
31. The study of and			5
A. paleontology	B. archaeology	C. histology	D. ethology
32. A group of cells	working together m	nake what?	
A. organ	B. system	C. tissue	D. organism
C	J		
33. What do Earth a			
A. rotate east to wes	t B. rotate every 24	1 hours C. have a green	nhouse effect D. have 1 moon
24 What gos do pl	anta talka in and usa	during photographogic?	
A. hydrogen	B. carbon dioxide	during photosynthesis? e C. argon	D. oxygen
A. Hydrogen	B. Carbon Gloxide	c. argon	D. Oxygen
35. Blood cells are i	made where in the h	uman body?	
A. bone marrow	B. heart muscle	C. lung tissue	D. liver
-			
36. What is the cher	nical symbol for Po	tassium?	
A. P	B. Po	C. K	D. Pt

<ul><li>37. A long, huge sea wave caused by a disturbance is called what?</li><li>A. hurricane B. tsunami C. earthquake D. mesocyclone</li></ul>
38. When reporting data on a line graph for an experiment, what variable goes on the x axis?  A. independent variable B. dependent variable C. controlled variable D. none of these
<ul><li>39. Our sun is classified as what type of star?</li><li>A. super giant B. white dwarf C. red giant D. yellow dwarf</li></ul>
<ul><li>40. When you open a soda bottle, gas escapes. What type of change is this?</li><li>A. chemical change B. physical change C. chemical reaction D. oxidation</li></ul>
41. What is the SI unit of measuring distance? A. liter B. mile C. meter D. gram
<ul><li>42. Who was the second person to walk on the surface of the moon?</li><li>A. Michael Collins B. Jeff Bezos C. Neil Armstrong D. Buzz Aldrin</li></ul>
43. What tool in the science lab is used to measure mass?  A. meterstick  B. spring scale  C. graduated cylinder  D. balance scale
<ul><li>44. Using the first letters of each color, which shows the order of the colors in a rainbow?</li><li>A. ROYGBIV</li><li>B. GBROYIV</li><li>C. YORBIVG</li><li>D. VIBGOYR</li></ul>
<ul><li>45. What transparent angular object can separate light by refraction into a spectrum of colors?</li><li>A. concave lens</li><li>B. convex lens</li><li>C. prism</li><li>D. color wheel</li></ul>
<ul><li>46. What human bone(s) are found between the knee and the ankle?</li><li>A. ulna and radius B. tibia and fibula C. humerus and femur D. carpal and metacarpal</li></ul>
<ul><li>47. What chamber of the human heart has the strongest muscle to pump blood?</li><li>A. right atrium B. left atrium C. right ventricle D. left ventricle</li></ul>
48. About how much blood is found in an adult human's body? A. 2 pints B. 4 pints C. 6 pints D. 10 pints
<ul><li>49. What do you call the tiny openings on the underside of green leaves?</li><li>A. stomata B. petioles C. lamina D. Both B and C</li></ul>
<ul><li>50. Allergies occur when a human's body overacts to what?</li><li>A. stress B. antigens C. glucose level D. heat</li></ul>

## 2021 - 2022 TMSCA Elementary Science Test #8 - Key

1. D	18. D	35. A
2. B	19. B	36. C
3. C	20. A	37. B
4. C	21. C	38. A
5. C	22. C	39. D
6. A	23. B	40. B
7. C	24. B	41. C
8. A	25. A	42. D
9. B	26. D	43. D
10. C	27. B	44. A
11. B	28. A	45. C
12. C	29. D	46. B
13. C	30. C	47. D
14. B	31. A	48. D
15. B	32. C	49. A
16. C	33. C	50. B

34. B

17. D