9908

1. Select the animal that uses gular fluttering during very warm weather.

	А	dog	В	cat			
	С	COW	D	chicken			
	Е	SOW	F	elephant			
2.	17.9	.9 dL = cc.					
	А	1790.0	В	179.00			
	С	3523.0	D	358.0			
	Е	17.90	F	1.790			
3.	Durir	ng surgery, small animals tend to					
	А	experience hypothermia	В	undergo hyperkalemia			
	С	undergo hypokalemia.	D	exhibit enhanced intestinal peristalsis			
	Е	exhibit enhanced immunotolerance	F	experience hyperthermia			
4.	A(n)	directs the flow of blood away from the	e non	mal path.			
	А	perioral valve	В	retrograde foramen			
	С	retrograde fossa	D	paraoral vascular flap			
	Е	vascular shunt	F	oriface valve			
5.	The	ovine carotid rete is found					
	А	in the pericardial sac.	В	within the rumen.			
	С	within the coccygeal artery.	D	in the lumbar region of the spine.			
	Е	in the infracardial sac.	F	at the base of the brain.			
6.	A hu	man (or animal) loses heat in water than in	air o	of the same temperature.			
	А	about 25 times faster	В	about 10 times slower			
	С	about 5 times faster	D	about 3 times faster			
	Е	about 5 times slower	F	about 50 times faster			
7.	Tem	perature is a measure of the average amount of		_ possessed by the particles in a sample of matter.			
	А	potential energy	В	radiant energy			
	С	calories	D	kinetic energy			
	Е	osmotic pressure	F	hydrostatic pressure			

8. is the process of heat transfer from one location to the next by the movement of fluids. Condensation Mass displacement А В Radiation Mass interia С D Conduction Convection Е F 9. Which answer lists material in order of decreasing thermal conductivity? air, copper, wood air, concrete, foamed plastic В А aluminum, water, air steel, aluminum, copper С D wood, concrete, steel Е F air, copper, steel 10. When ambient temps drop below the LCT for young calves, dietary energy is diverted away from growth and is directed toward protein digestion producing more feces А В producing more urine producing rumen growth С D producing heat bacterial digestion Е F 11. Thermoregulation in both ectotherms and endotherms is controlled mainly by the preoptic area of the corpus callosum anterior hypothalamus А В pineal gland thyroid gland С D posterior pituitary gland anterior pituitary gland Е F 12. Given 80 ml of heparinized blood, how much _____ could you harvest? plasma, 0.83 dl plasma, 75 ml А В serum, 1.65 dl plasma, 44 ml С D serum, 10 ml serum, 0.83 dl Е F 13. The LCT of a high-producing dairy cow is _____ while for a piglet it is _____. zero F, positive 40 F minus 40 F, positive 10 F А В positive 32 F, positive 32 F minus 93 F, positive 93 F С D zero F, zero F minus 40 F, positive 88 F E F 14. The feline ear drum can also be termed the transitional membrane. fusiform membrane. А В ossicle. tympanic membrane. С D enteric membrane. quasimodo membrane. Е F

15.	Cond	densation on a pipe transfers per g	ram o	of
	А	60 kilocalories, water	В	20 amps, blood
	С	20 amps, pipe	D	60 hectares, pipe
	Е	1 hectare, steam	F	600 calories, water
16.	16. Noctumal is a term that means:			
	A	consuming heat	В	unable to "sense" changes in body temperature
	С	unable to control body temperature	D	unresponsive to "normal" hormone levels
	Е	active at night	F	generating heat
17.	7. Conductive heat flow involves the transfer of heat from one location to another in the absence of any			
	А	matter	В	temperature differential
	С	solid objects	D	metal objects
	Е	humidity differential	F	material flow
18. This animal has very large ears and is the smallest canid.				
	А	red fox	В	semi-feral wild fox
	С	Fennec fox	D	5-striped gopher
	Е	7-striped gopher	F	gray fox
19. Latent heat transfer includes				
	А	conduction	В	radiation
	С	evaporation	D	natural convection
	Е	wind chill	F	forced convection
20.	Durii	ng high ambient temperatures, is the	most	t important heat transfer mechanism for cattle.
	А	conduction	В	convection
	С	radiation	D	condensation
	Е	natural convection	F	evaporation
21.	. Within brown adipose tissue, this component directly produces thermal energy.			es thermal energy.
	А	mitochondria	В	nucleus
	С	thermogenic receptors	D	thermogenic myocytes
	Е	macrophages	F	Kupffer units

22.	Goos	sebumps in humans is the result of	·			
	А	olfactory inhibition	В	involuntary gustation		
	С	gustation	D	reverse gustation		
	Е	peristalsis	F	piloerection		
23.	23. Select the use of the BAIR system for dogs.					
	А	Counteracts retrograde blood flow during blood transfusions.	В	Used as an antidote when dogs have been exposed to CO.		
	С	Used as an antidote when dogs have been exposed to pet food containing aflatoxin.	D	Helps the female dog maintain pregnancy during extreme cold weather.		
	Е	Helps maintain normal core body temperature during surgery.	F	Counteracts poisons that affect core body temperature.		
24.	Huddling changes what physical/chemical parameter of the animals involved?					
	А	postprandial thermogenesis	В	lowers blood pH		
	С	effective surface area	D	glucose levels in brain		
	Е	preprandial thermogenesis	F	increases heart rate		
25.	25. Which of the following is not a factor for heat transfer by convection.					
	А	surface roughness	В	velocity of the medium		
	С	humidity	D	velocity		
	Е	effective surface area	F	surface insulation thickness		
26.	. Select the temperature of rumen fluid in the high-producing dairy cow.					
	А	98 F	В	92.5 F		
	С	101.5 F	D	105 F		
	Е	125 F	F	115 F		
27.	Minu	is 40 degrees F equals degrees C.				
	А	20	В	zero		
	С	minus 40	D	10		
	Е	30	F	minus 20		