

9908

- Select the animal that uses gular fluttering during very warm weather.
 - dog
 - cat
 - cow
 - chicken
 - sow
 - elephant
- 17.9 dL = ____ cc.
 - 1790.0
 - 179.00
 - 3523.0
 - 358.0
 - 17.90
 - 1.790
- During surgery, small animals tend to _____.
 - experience hypothermia
 - undergo hyperkalemia
 - undergo hypokalemia.
 - exhibit enhanced intestinal peristalsis
 - exhibit enhanced immunotolerance
 - experience hyperthermia
- A(n) _____ directs the flow of blood away from the normal path.
 - perioral valve
 - retrograde foramen
 - retrograde fossa
 - paraoral vascular flap
 - vascular shunt
 - oriface valve
- The ovine carotid rete is found
 - in the pericardial sac.
 - within the rumen.
 - within the coccygeal artery.
 - in the lumbar region of the spine.
 - in the infracardial sac.
 - at the base of the brain.
- A human (or animal) loses heat _____ in water than in air of the same temperature.
 - about 25 times faster
 - about 10 times slower
 - about 5 times faster
 - about 3 times faster
 - about 5 times slower
 - about 50 times faster
- Temperature is a measure of the average amount of _____ possessed by the particles in a sample of matter.
 - potential energy
 - radiant energy
 - calories
 - kinetic energy
 - osmotic pressure
 - hydrostatic pressure

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

22. Goosebumps in humans is the result of _____.
- A olfactory inhibition
 - B involuntary gustation
 - C gustation
 - D reverse gustation
 - E peristalsis
 - F piloerection
23. Select the use of the BAIR system for dogs.
- A Counteracts retrograde blood flow during blood transfusions.
 - B Used as an antidote when dogs have been exposed to CO.
 - C 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.
 - E 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?
- A postprandial thermogenesis
 - B lowers blood pH
 - C effective surface area
 - D glucose levels in brain
 - E preprandial thermogenesis
 - F increases heart rate
25. Which of the following is not a factor for heat transfer by convection.
- A surface roughness
 - B velocity of the medium
 - C humidity
 - D velocity
 - E effective surface area
 - F surface insulation thickness
26. Select the temperature of rumen fluid in the high-producing dairy cow.
- A 98 F
 - B 92.5 F
 - C 101.5 F
 - D 105 F
 - E 125 F
 - F 115 F
27. Minus 40 degrees F equals _____ degrees C.
- A 20
 - B zero
 - C minus 40
 - D 10
 - E 30
 - F minus 20