

12333

1. Select the one false statement.

- | | | | |
|---|--|---|---|
| A | In egg producing chickens, both ovaries produce yolks. | B | Avian erythrocytes each have a nucleus. |
| C | Lidocaine can be used as a local anesthetic. | D | Atropine administration results in reduced saliva production in dogs. |
| E | Cats are reflex ovulators. | F | Chickens lack a functional diaphragm. |

2. In a joint, the ends of the bones are covered with _____, which is a smooth protective tissue that helps reduce friction as joints move.

- | | | | |
|---|----------|---|-----------|
| A | lipids | B | sulci |
| C | sebum | D | saline |
| E | proteins | F | cartilage |

3. Select the acid produced when muscles perform work.

- | | | | |
|---|-----------------|---|-------------------|
| A | myochloric acid | B | lactic acid |
| C | amino acid | D | myolinic acid |
| E | ascorbic acid | F | hydrochloric acid |

4. The gut and ureter use _____ to transport luminal contents.

- | | | | |
|---|----------------------|---|---------------------|
| A | sphincters | B | hydroponic pressure |
| C | skeletal muscle | D | peristalsis |
| E | hydrostatic pressure | F | osmosis |

5. Only about 15% of the energy released by the myocyte's mitochondria is used to fuel muscle contraction. The rest is released as _____.

- | | | | |
|---|-----------------|---|----------------|
| A | gamma particles | B | glucose |
| C | glycogen | D | light |
| E | heat | F | beta particles |

6. _____ is released by WBCs to induce _____.

- | | | | |
|---|-----------------------------|---|-------------------------|
| A | cytoplasm, vasoconstriction | B | IGF, muscle contraction |
| C | IGF, hyperthermia | D | MAC, hyperthermia |
| E | glycogen, vasodilution | F | IL-1, fever |

7. Select the one false statement.
- | | | | |
|---|--|---|---|
| A | A famous hypotonic solution is pure water. | B | Action potentials are sudden membrane depolarizations followed by a rapid repolarization. |
| C | Axons are long processes specialized for the conduction of action potentials away from the neuronal cell body. | D | Osmosis is the diffusion of water. |
| E | Gustation refers to the sense of taste. | F | Fossa is a term that means hole or passageway. |
8. The _____ vertebrae are usually fused into one solid bone called the _____ that sits within the pelvic girdle.
- | | | | |
|---|----------------|---|------------------|
| A | fifth, sacrum | B | thoracic, sterum |
| C | sacral, sacrum | D | cervical, neck |
| E | fourth, sterum | F | fifth, sterum |
9. _____ muscle must have _____ innervation to contract.
- | | | | |
|---|-----------------------|---|----------------------|
| A | Skeletal, sympathetic | B | Cardiac, extrinsic |
| C | Cardiac, coronary | D | Smooth, perivascular |
| E | Skeletal, extrinsic | F | Smooth, extrinsic |
10. _____ dissolve bone by secreting enzymes and acids.
- | | | | |
|---|-------------|---|-------------------|
| A | Osteoclasts | B | Nuclearblasts |
| C | Osteophytes | D | Osteomas |
| E | Osteoblasts | F | Perinuclearclasts |
11. The tail vertebrae in the bovine tail can also be termed the _____ vertebrae.
- | | | | |
|---|---------|---|-------------|
| A | medial | B | ipsilateral |
| C | cranial | D | coccygeal |
| E | lumbar | F | transverse |
12. At the base of the ovine cranium is the _____, translated as "big hole", through which the spinal cord passes.
- | | | | |
|---|-----------------|---|----------------|
| A | maximum alba | B | fossa magnum |
| C | orifice maximum | D | large fossa |
| E | linea alba | F | foramen magnum |
13. Long bone growth occurs at these sites.
- | | | | |
|---|---------------------------|---|-----------------|
| A | epiphyseal lines (plates) | B | proximal plates |
| C | periosteum grooves | D | dorsal plates |
| E | symphyseal lines (plates) | F | rostral grooves |

14. Tendons are tough bands of connective tissue made up mostly of a protein called _____.

- A collagen
- B tripe
- C nicotene
- D latex
- E albumin
- F tripeptide agluten

15. _____ attach muscles to bones.

- A Tendons
- B The paraligaments
- C Ligaments
- D Osteocytes
- E Myocytes
- F The linea albas

16. A(n) _____ is a _____ that surrounds and controls an opening.

- A sphincter, nerve
- B sarcolemma, muscle
- C perilemma, tendon
- D orifice, nerve
- E sphincter, muscle
- F sphincter, tendon

17. In the dog, the bone immediately cranial to T1 is _____.

- A S1
- B C9
- C Cd1
- D Cy12
- E L5
- F C7

18. An animal has this dental formula: $\begin{array}{cccc} 3 & 1 & 3 & 4 \\ \hline 3 & 1 & 4 & 4 \end{array}$ How many total teeth does it have?

- A 23
- B 22
- C 46
- D 69
- E I cannot answer because some data is missing.
- F 11

19. Visceral bones develop in the soft tissue of the:

- A chicken crop and ovine rumen.
- B ovine femur and avian gizzard.
- C bovine stomach and chicken crop.
- D feline brain.
- E penis of the dog and the cow's heart.
- F chicken crop and chicken gizzard.

20. _____, given i.m. to dogs, will cause a decrease in gut motility.

- A Acetylcholine
- B Calcium
- C Sarin
- D RU486
- E Anabolic steroids
- F Atropine

21. The skull protects the brain and sense organs. The cranium forms a solid box enclosing the brain. The _____ forms the jaw.
- | | |
|--------------------|------------|
| A gustation bone | B mandible |
| C carpals | D ulna |
| E paralumbar fossa | F hilus |
22. In cattle, a rumen fistula is always placed in the:
- | | |
|----------------------------|--------------------------|
| A proximal central foramen | B distal rumen orifice |
| C left paralumbar fossa | D perirenal diverticulum |
| E right paralumber foramen | F right medial fossa |
23. _____ is the movement that reduces the angle of a joint in the body.
- | | |
|---------------|---------------------------|
| A Contraction | B Isotonic contraction |
| C Stasis | D Extension |
| E Flexion | F Ipsilateral contraction |
24. Nutritional myodegeneration in horses often involves one of these two nutrients.
- | | |
|-------------------------|------------------------|
| A warfarin or copper | B xylitol or copper |
| C vitamin C or glycogen | D glucose or vitamin D |
| E vitamin E or selenium | F calcium or glucose |
25. Select the one true statement about double muscling cattle (homozygous recessive).
- | | |
|---|--|
| A The internal organs tend to be larger than normal. | B There is a decreased carcass yield upon harvest. |
| C 9 out of 10 pregnant cows require a cesarean section at the end of gestation. | D The meat is less tender than normal cattle. |
| E The meat is less lean than normal cattle. | F The bulls tend to develop patella luxation. |
26. In the equine nervous system, most reflex arcs involve 3 neurons - a sensory neuron, a relay neuron and a(n) _____.
- | | |
|----------------|------------------|
| A PG effector | B PG antagonist |
| C neurohormone | D enzyme agonist |
| E motor neuron | F hormone |
27. The functional unit of bone tissue is termed the _____.
- | | |
|----------------|-----------------------|
| A osteon | B bone medulla cortex |
| C cartilocytes | D bone Kupffercytes |
| E medial cells | F osteocyte |