

Veterinary Science Fundamentals for Young Learners

Veterinary Science · Answer Key · 22 Questions

1. What is the primary function of the sinoatrial (SA) node in a mammal's heart?

- A) To pump blood into the aorta
- B) To regulate the heart's rhythm**
- C) To filter waste products from the blood
- D) To carry oxygen to the tissues

2. Which of the following is a zoonotic disease, meaning it can be transmitted from animals to humans?

- A) Canine distemper
- B) Feline leukemia virus
- C) Rabies**
- D) Avian influenza in poultry

3. What is the term for the process of administering a vaccine to an animal to prevent disease?

- A) Sterilization
- B) Euthanasia
- C) Inoculation**
- D) Amputation

4. Which type of diagnostic imaging uses magnetic fields and radio waves to create detailed images of internal organs and tissues?

- A) X-ray
- B) Ultrasound
- C) Computed Tomography (CT) scan
- D) Magnetic Resonance Imaging (MRI)**

5. What is the scientific name for the common domestic cat?

- A) Canis lupus familiaris
- B) Felis catus**
- C) Bos taurus
- D) Equus caballus

6. In veterinary parasitology, what is the term for an organism that lives on the outside of a host, such as fleas and ticks?

- A) Endoparasite
- B) Ectoparasite**
- C) Symbiote
- D) Commensal

7. What is the primary role of a veterinarian during a surgical procedure?

A) To provide anesthesia and monitor vital signs

B) To perform the surgery while the vet supervises

C) To prepare the surgical instruments

D) To administer post-operative care only

8. Which breed of dog is known for its distinctive wrinkled face and is prone to brachycephalic airway syndrome?

A) Border Collie

B) Pug

C) German Shepherd

D) Labrador Retriever

9. What is the process of taking a sample of tissue for examination under a microscope called?

A) Necropsy

B) Biopsy

C) Autopsy

D) Histology

10. Which of these is a vital nutrient for bone development and maintenance in many animal species?

A) Vitamin C

B) Calcium

C) Iron

D) Vitamin E

11. What is the common name for the gastrointestinal tract of a ruminant animal, which has multiple stomach compartments?

A) Monogastric stomach

B) Cecum

C) Rumen

D) Duodenum

12. The study of animal behavior in a veterinary context is known as:

A) Ethology

B) Zoology

C) Ecology

D) Physiology

13. What is the term for the procedure where a veterinarian intentionally ends an animal's life to relieve suffering?

- A) Spaying
- B) Neuter
- C) Euthanasia**
- D) Vaccination

14. Which common domestic animal is a marsupial?

- A) Rabbit
- B) Guinea Pig
- C) Ferret
- D) Opossum**

15. What is the scientific term for a wound that breaks the skin, exposing the underlying tissue?

- A) Abrasion
- B) Laceration**
- C) Contusion
- D) Avulsion

16. Which of the following is a common sign of dehydration in animals?

- A) Excessive salivation
- B) Dry, tacky gums**
- C) Increased urination
- D) Bright, alert demeanor

17. What is the purpose of antibiotic medication in veterinary medicine?

- A) To reduce inflammation
- B) To kill or inhibit the growth of bacteria**
- C) To relieve pain
- D) To boost the immune system

18. Which part of the bird's digestive system grinds food, often with the help of grit?

- A) Proventriculus
- B) Gizzard**
- C) Esophagus
- D) Cloaca

19. What is the scientific name for the domestic dog?

- A) Felis catus
- B) Canis familiaris**
- C) Equus caballus
- D) Ovis aries

20. What is the primary function of the cornea in an animal's eye?

- A) To focus light onto the retina
- B) To control the amount of light entering the eye
- C) To protect the front of the eye**
- D) To produce tears

21. Which class of drugs is commonly used to treat allergic reactions in animals?

- A) Opioids
- B) Antihistamines**
- C) Diuretics
- D) Sedatives

22. What is the term for the surgical removal of the uterus and ovaries from a female animal?

- A) Castration
- B) Vasectomy
- C) Ovariohysterectomy**
- D) Orchiectomy