

Advanced Veterinary Science Knowledge Check

Veterinary Science · Answer Key · 20 Questions

1. In what year was the Royal College of Veterinary Surgeons (RCVS) founded in the United Kingdom?

- A) 1831
- B) 1844**
- C) 1865
- D) 1901

2. Who is credited with developing the first successful rabies vaccine for animals, and in what year was it first demonstrated?

- A) Robert Koch, 1885
- B) Louis Pasteur, 1885**
- C) Emil Behring, 1890
- D) Rudolf Virchow, 1878

3. What was the approximate mortality rate of Rinderpest in cattle during major outbreaks in the late 19th century?

- A) 20-40%
- B) 40-60%
- C) 60-90%**
- D) 90-100%

4. Theileriosis, a significant tick-borne protozoan disease in cattle, was notably studied by Dr. Arnold Theiler. In which decade did he significantly contribute to understanding and controlling East Coast fever?

- A) 1890s
- B) 1900s**
- C) 1910s
- D) 1920s

5. What is the standard recommended dosage of Melarsomine dihydrochloride for adult heartworm infected dogs, typically administered in a two-injection protocol?

- A) 2.5 mg/kg
- B) 3.5 mg/kg
- C) 5 mg/kg**
- D) 7.5 mg/kg

6. The first documented case of Avian Influenza (H5N1) in humans, directly linked to poultry, occurred in which year?

- A) 1997
- B) 2003
- C) 2005
- D) 2009

7. What is the approximate half-life of a typical IgG antibody in canine circulation?

- A) 1-3 days
- B) 3-7 days
- C) 7-21 days
- D) 21-30 days

8. The Animal Welfare Act in the United States was originally signed into law in what year?

- A) 1956
- B) 1966
- C) 1976
- D) 1986

9. Which veterinary anesthetic agent, first synthesized in the 1950s, is known for its dissociative properties and rapid onset of action?

- A) Isoflurane
- B) Halothane
- C) Ketamine
- D) Sevoflurane

10. The World Organisation for Animal Health (OIE), now WOAH, was established in what year?

- A) 1912
- B) 1924
- C) 1948
- D) 1957

11. What is the typical normal rectal temperature range for adult cats (in Celsius)?

- A) 37.0 - 38.0 °C
- B) 38.0 - 39.2 °C
- C) 39.2 - 40.5 °C
- D) 40.5 - 41.5 °C

12. Who is widely recognized as the 'father of veterinary pathology' for his extensive work on animal diseases in the 19th century?

- A) Sir John McFadyean
- B) Rudolf Virchow**
- C) Louis Pasteur
- D) Sir Arnold Theiler

13. Theileriosis caused by Theileria annulata is endemic in which major geographical region?

- A) North America
- B) South America
- C) Sub-Saharan Africa and parts of Asia**
- D) Australia and New Zealand

14. In relation to tick paralysis in dogs, what is the approximate incubation period from tick attachment to the onset of clinical signs?

- A) 12-24 hours
- B) 1-3 days
- C) 3-7 days**
- D) 7-14 days

15. What specific year marked the first successful surgical separation of conjoined twins in veterinary medicine, involving puppies?

- A) 1950
- B) 1962**
- C) 1975
- D) 1988

16. Which essential trace mineral, crucial for thyroid hormone synthesis, can lead to goiter in animals if deficient?

- A) Zinc
- B) Selenium
- C) Iodine**
- D) Copper

17. The standard dose for a single injection of Melarsomine dihydrochloride for heartworm treatment in dogs is typically calculated at what rate per kilogram of body weight?

- A) 1.5 mg/kg
- B) 2.5 mg/kg
- C) 3.5 mg/kg
- D) 5.0 mg/kg**

18. What specific year did the World Health Organization (WHO) officially declare the eradication of Rinderpest globally?

- A) 2000
- B) 2005
- C) 2010
- D) 2011**

19. Which of these veterinary anesthetics is a cyclohexanone derivative and acts as a NMDA receptor antagonist?

- A) Propofol
- B) Alfaxalone
- C) Ketamine**
- D) Etomidate

20. The T-lymphocyte subset commonly associated with cell-mediated immunity and often targeted by viruses like FIV is designated as:

- A) CD4+**
- B) CD8+
- C) B cells
- D) NK cells