

Pioneers of Veterinary Science: Firsts and Innovations

Veterinary Science · Answer Key · 19 Questions

1. Who is credited with performing the first successful caesarean section on a dog, documented in the mid-19th century, significantly advancing surgical possibilities in veterinary medicine?

- A) Sir John McFadyean
- B) Rudolph Virchow
- C) Henri Louis de Morvan**
- D) Friedrich Loeffler

2. What groundbreaking veterinary vaccine, developed in the late 19th century, was the first to effectively prevent a major economically devastating disease in cattle, revolutionizing livestock health?

- A) Rabies vaccine
- B) Rinderpest vaccine
- C) Anthrax vaccine**
- D) Foot-and-mouth disease vaccine

3. The development of the first veterinary stethoscope, a crucial diagnostic tool, is attributed to which pioneering veterinarian in the early 19th century?

- A) James Law
- B) William Youatt
- C) John Grainger
- D) Pierre Flandin**

4. Which scientist is credited with the first isolation and identification of a bacterium causing a specific animal disease (avian cholera) in 1877, marking a pivotal moment in veterinary bacteriology?

- A) Louis Pasteur
- B) Robert Koch
- C) Theobald Smith
- D) Friedrich Loeffler**

5. The first veterinary school in the world, established to provide formal scientific training for animal doctors, was founded in what country in the mid-18th century?

- A) France**
- B) Germany
- C) United Kingdom
- D) United States

6. What significant discovery by Sir John McFadyean in the late 19th century provided the first definitive serological test for diagnosing a specific animal disease, leading to better disease control?

- A) Diagnosis of Strangles
- B) Diagnosis of Glanders**
- C) Diagnosis of Bovine Tuberculosis
- D) Diagnosis of Equine Influenza

7. The initial successful surgical repair of a congenital heart defect in a dog, a landmark achievement in veterinary cardiology, was performed in what decade?

- A) 1960s
- B) 1970s**
- C) 1980s
- D) 1990s

8. Who is recognized as the first veterinarian to develop and administer an anesthetic for surgical procedures on animals, significantly improving animal welfare during operations?

- A) William Henry Fox**
- B) William Percivall
- C) Thomas Brown
- D) James Smith

9. The invention of the first practical veterinary endoscope for internal examination of animals occurred in which period, opening new avenues for diagnosis and minimally invasive surgery?

- A) Early 20th century
- B) Mid-20th century**
- C) Late 20th century
- D) Early 21st century

10. What was the first widely successful antibiotic developed for veterinary use, dramatically changing the treatment of bacterial infections in animals in the mid-20th century?

- A) Penicillin**
- B) Tetracycline
- C) Streptomycin
- D) Chloramphenicol

11. The first successful artificial insemination in a mammal, a technique now ubiquitous in animal breeding, was first demonstrated in what species by Ivanov in the late 19th century?

- A) Cattle
- B) Horses
- C) Sheep**
- D) Dogs

12. Which disease was the first to be eradicated globally through organized veterinary public health efforts, demonstrating the power of international cooperation and veterinary science?

- A) Foot-and-mouth disease
- B) Rinderpest**
- C) Avian influenza
- D) Rabies

13. The development of the first veterinary x-ray machine, a revolutionary diagnostic tool, occurred in the early part of which century?

- A) 19th century
- B) 20th century**
- C) 18th century
- D) 17th century

14. The first isolation and identification of a virus as a cause of animal disease is attributed to which researcher in the late 19th century, studying foot-and-mouth disease?

- A) Dmitri Ivanovsky
- B) Martinus Beijerinck
- C) Eduard Buchner
- D) Otto Mayer**

15. What major veterinary surgical advancement, first successfully documented in the mid-20th century, enabled the correction of uterine torsion in large animals, saving countless breeding stock?

- A) Ovariohysterectomy
- B) Cervical dilation
- C) Cesarean section**
- D) Tocolysis

16. The first successful blood transfusion in a veterinary patient, a critical intervention for severe anemia, was performed on which animal species in the early 20th century?

A) Horse

B) Dog

C) Cat

D) Cow

17. Who is credited with the first successful experimental transmission of a protozoal disease in animals, paving the way for understanding vector-borne diseases in veterinary medicine?

A) Alice Ball

B) Ronald Ross

C) Carlos Chagas

D) Theobald Smith

18. The development of the first effective treatment for a common parasitic disease in poultry, a significant economic breakthrough, involved the discovery and application of which drug in the mid-20th century?

A) Ivermectin

B) Levamisole

C) Amprolium

D) Piperazine

19. What groundbreaking diagnostic imaging technique, first applied to veterinary medicine in the latter half of the 20th century, revolutionized the detection of soft tissue abnormalities?

A) Computed Tomography (CT)

B) Magnetic Resonance Imaging (MRI)

C) Ultrasound

D) Positron Emission Tomography (PET)