



Vet Tech VTNE

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Practice Questions

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1. A dog weighs 20 kg and is to receive a drug dosed at 5 mg/kg. How many total milligrams should be given?

- A. 50 mg
- B. 100 mg
- C. 200 mg
- D. 25 mg

2. A patient classified as ASA Physical Status III is best described as having:

- A. No disease, healthy
- B. Mild systemic disease
- C. Severe systemic disease that limits activity but is not incapacitating
- D. A moribund condition unlikely to survive

3. Which method uses pressurized saturated steam to sterilize surgical instruments?

- A. Cold chemical soak
- B. Autoclave (steam under pressure)
- C. Ultrasonic cleaner
- D. Ultraviolet light

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4. How many permanent (adult) teeth does a typical dog have?

- A. 30
- B. 42
- C. 28
- D. 20



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5. The PCV (packed cell volume) measures:

- A. The number of platelets
- B. The percentage of blood volume made up of red blood cells
- C. Blood glucose
- D. White cell count

6. The most important principle for limiting personnel radiation exposure is summarized as ALARA, which stands for:

- A. Always Look At Radiographs Again
- B. As Low As Reasonably Achievable
- C. Avoid Lead And Radiation Always
- D. Add Lead Around Radiology Area

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7. The normal rectal temperature range for a healthy dog is approximately:

- A. 95 to 98 degrees F
- B. 100 to 102.5 degrees F
- C. 104 to 106 degrees F
- D. 90 to 95 degrees F

8. During CPR in a medium dog, chest compressions should be delivered at a rate of approximately:

- A. 40 to 60 per minute
- B. 100 to 120 per minute
- C. 160 to 180 per minute
- D. 20 per minute

9. A drug is supplied at 50 mg/mL. To deliver 100 mg, what volume should be drawn up?

- A. 0.5 mL
- B. 1.0 mL
- C. 2.0 mL
- D. 4.0 mL

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10. What is the primary purpose of withholding food before elective anesthesia in dogs and cats?

- A. To reduce the risk of regurgitation and aspiration
- B. To lower body temperature
- C. To increase blood pressure
- D. To improve drug taste

11. What does a properly changed chemical indicator strip inside a sterilization pack confirm?

- A. The pack is waterproof
- B. The instruments are sharp
- C. That sterilization conditions (such as steam and temperature) were met
- D. The patient is ready

12. How many permanent (adult) teeth does a typical cat have?

- A. 42
- B. 28
- C. 30
- D. 20

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13. A markedly low PCV indicates:

- A. Dehydration
- B. Polycythemia
- C. Anemia
- D. Leukocytosis

14. Which three principles most reduce occupational radiation dose?

- A. Time, distance, and shielding
- B. Speed, color, and contrast
- C. Heat, light, and sound
- D. Cost, weight, and size



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15. The normal resting heart rate for an adult cat is approximately:

- A. 20 to 40 bpm
- B. 60 to 80 bpm
- C. 140 to 220 bpm
- D. 300 to 400 bpm

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16. According to RECOVER guidelines, chest compressions during CPR should depress the chest by about:

- A. 10 percent of chest width
- B. 20 percent
- C. One third to one half of the chest width
- D. 75 percent

17. Which schedule of controlled drug, under the U.S. Controlled Substances Act, has NO accepted medical use and the highest abuse potential?

- A. Schedule I
- B. Schedule II
- C. Schedule IV
- D. Schedule V

18. Pulse oximetry primarily measures which parameter?

- A. End-tidal carbon dioxide
- B. Hemoglobin oxygen saturation
- C. Blood pH
- D. Core temperature

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19. Which type of sterilization monitor most directly proves that bacterial spores were killed?

- A. Biological indicator using Geobacillus spores
- B. Autoclave tape only
- C. Indicator strip color
- D. Pack expiration date



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20. Which structure anchors the tooth root within the alveolar bone?

- A. Periodontal ligament
- B. Enamel
- C. Pulp
- D. Crown

21. Which anticoagulant tube (lavender/purple top) is preferred for routine hematology (CBC)?

- A. EDTA
- B. Heparin
- C. Sodium citrate
- D. Clot tube (no additive)

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22. Why is manual restraint of patients for radiographs discouraged whenever possible?

- A. It is slower
- B. It is more expensive
- C. It exposes personnel to scatter radiation
- D. It produces blurry images only

23. Where is the femoral pulse most commonly palpated in dogs and cats?

- A. The medial (inner) thigh
- B. The neck
- C. The tail tip
- D. The footpad

24. During two-rescuer CPR with an intubated patient, ventilations are typically given at a rate of about:

- A. 10 breaths per minute
- B. 40 breaths per minute
- C. 60 breaths per minute
- D. 2 breaths per minute

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25. A clinic stocks ketamine and hydromorphone. Under DEA rules, these are most commonly classified in which schedule?

- A. Schedule I
- B. Schedule V
- C. Schedule III and Schedule II respectively
- D. Schedule IV and Schedule I respectively

26. A sudden drop of end-tidal CO₂ to near zero in an intubated patient most urgently suggests:

- A. Mild hypothermia
- B. Light anesthetic plane
- C. Esophageal intubation, disconnection, or cardiac arrest
- D. Normal recovery

27. During a surgical hand scrub, hands should be held:

- A. Above the level of the elbows so water runs from clean to less clean
- B. Below the elbows
- C. In pockets
- D. Behind the back

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28. The hardest, outermost mineralized layer covering the crown of the tooth is:

- A. Dentin
- B. Enamel
- C. Cementum
- D. Pulp

29. Which tube is the correct choice for most coagulation testing such as PT and PTT?

- A. EDTA (lavender)
- B. Sodium citrate (blue top)
- C. Heparin (green)
- D. Serum (red)



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30. A radiation dosimetry badge is worn to:

- A. Block radiation
- B. Monitor an individual's cumulative radiation exposure
- C. Improve image quality
- D. Replace lead aprons



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Answer Key & Explanations

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1. B — 100 mg

Dose equals body weight times the per-kilogram dose: $20 \text{ kg} \times 5 \text{ mg/kg} = 100 \text{ mg}$.

2. C — Severe systemic disease that limits activity but is not incapacitating

ASA III denotes severe systemic disease; ASA I is healthy, II is mild disease, IV is severe life-threatening disease, and V is moribund.

3. B — Autoclave (steam under pressure)

An autoclave sterilizes by saturated steam under pressure, typically reaching about 121 degrees C, killing microbes and spores.

4. B — 42

The adult dog has 42 permanent teeth; the adult cat has 30.

5. B — The percentage of blood volume made up of red blood cells

PCV, obtained after centrifuging a microhematocrit tube, is the percentage of whole blood occupied by red blood cells and screens for anemia or polycythemia.

6. B — As Low As Reasonably Achievable

ALARA means keeping radiation exposure As Low As Reasonably Achievable, achieved through time, distance, and shielding.

7. B — 100 to 102.5 degrees F

A normal canine rectal temperature is about 100 to 102.5 degrees F (37.8 to 39.2 degrees C); higher suggests fever or hyperthermia.

8. B — 100 to 120 per minute

Current RECOVER CPR guidelines recommend a compression rate of 100 to 120 per minute for dogs and cats.

9. C — 2.0 mL

Volume equals dose divided by concentration: $100 \text{ mg} / 50 \text{ mg/mL} = 2.0 \text{ mL}$.

10. A — To reduce the risk of regurgitation and aspiration

Fasting reduces stomach contents, lowering the chance of regurgitation and aspiration pneumonia during induction and recovery.

11. C — That sterilization conditions (such as steam and temperature) were met

A chemical indicator changes color when exposed to the parameters of the cycle, signaling the conditions for sterilization were reached, though biological indicators confirm spore kill.

12. C — 30

The adult cat has 30 permanent teeth, fewer than the dog's 42.



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13. C — Anemia

A low packed cell volume reflects a reduced red cell mass, which defines anemia.

14. A — Time, distance, and shielding

Minimizing exposure time, maximizing distance from the source, and using shielding (lead) are the three core radiation protection principles.

15. C — 140 to 220 bpm

Cats normally have a resting heart rate around 140 to 220 beats per minute, faster than dogs.

16. C — One third to one half of the chest width

Effective compressions depress the thorax by roughly one third to one half of the chest width to generate adequate forward blood flow.

17. A — Schedule I

Schedule I substances have no currently accepted medical use and the highest abuse potential, so they are not used clinically in veterinary practice.

18. B — Hemoglobin oxygen saturation

A pulse oximeter estimates the percentage of hemoglobin saturated with oxygen (SpO₂) and provides a pulse rate.

19. A — Biological indicator using Geobacillus spores

Biological indicators contain resistant spores; if they fail to grow after processing, sterility of the cycle is verified, which chemical indicators alone cannot prove.

20. A — Periodontal ligament

The periodontal ligament suspends the tooth in the alveolus and absorbs occlusal forces; its breakdown is central to periodontal disease.

21. A — EDTA

EDTA in the lavender-top tube preserves cell morphology best for complete blood counts; it chelates calcium to prevent clotting.

22. C — It exposes personnel to scatter radiation

Holding patients places hands and body in or near the primary and scatter beam; sedation, positioning aids, and ALARA principles minimize personnel dose.

23. A — The medial (inner) thigh

The femoral artery runs along the medial thigh, where the femoral pulse is readily palpated to assess rate and quality.

24. A — 10 breaths per minute

RECOVER guidelines recommend about 10 breaths per minute (one every 6 seconds) for an intubated patient, given simultaneously with continuous compressions.

25. C — Schedule III and Schedule II respectively

Ketamine is a Schedule III drug and hydromorphone is a Schedule II opioid; both require secure storage and a usage log.



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26. C — Esophageal intubation, disconnection, or cardiac arrest

An abrupt loss of the capnograph waveform indicates the patient is no longer ventilating through the circuit (disconnect, esophageal tube) or has lost circulation, all emergencies.

27. A — Above the level of the elbows so water runs from clean to less clean

Keeping hands higher than elbows lets water drain from the cleanest area (hands) toward the elbows, maintaining asepsis.

28. B — Enamel

Enamel is the highly mineralized outer covering of the crown and is the hardest substance in the body.

29. B — Sodium citrate (blue top)

Sodium citrate in the blue-top tube is used for coagulation testing; the correct blood-to-anticoagulant ratio is critical for accurate results.

30. B — Monitor an individual's cumulative radiation exposure

A dosimeter records the wearer's accumulated occupational radiation dose so exposure stays within safe limits; it does not provide protection.



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