



# VTNE

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## Practice Questions

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**1. Conventional radiology film cassettes are equipped with intensifying screens.<br/><br/>What is the specific purpose for incorporating intensifying screens within these cassettes?**

- A. To identify the radiograph
- B. To secure the film inside of the cassette
- C. To keep the film from developing artifacts
- D. To increase contrast

**2. What is the radiation dose when the operator doubles the distance from the primary beam?**

- A. 1/10
- B. 1/2
- C. 1/3
- D. 1/4

**3. You are presented with a radiograph that appears to be black and white. Upon observation, you notice that the bones are grey.<br/><br/>What steps should you take for the next radiograph?**

- A. It really does not matter which setting you decrease.
- B. Decrease mAs.
- C. Decrease kVp.
- D. Increase kVp or mAs.

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**4. With cholestatic disease (gallbladder), what color might their serum be?**

- A. Red
- B. White
- C. Yellow
- D. Orange



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**5. The presence of fibrin in a blood sample has the potential to obstruct the analyzer tubing or inaccurately affect the quantified level of an analyte. If serum is left on the clot for more than one hour, what consequence might be expected?**

- A. increased cholesterol
- B. alterations in enzymes
- C. increased creatinine
- D. decreased glucose concentration

**6. Which of the following is not necessary for DNA replication?**

- A. DNA polymerase matches free nucleotides to exposed bases.
- B. Adenine pairs with Thymine; Cytosine pairs with Guanine.
- C. New DNA strands are formed from each of the original strands.
- D. RNA polymerase initiates separation of the DNA double helix.

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**7. Which of the following is not among the three components of a good blood smear?**

- A. Monolayer
- B. Body
- C. Feathered edge
- D. Glider

**8. With a standing restraint, which of the following procedures could be performed?**

- A. Rectal temperature
- B. Vaginal smear
- C. Physical exam
- D. All of the above

**9. Which of the following options most accurately represents the common name for the olecranon?**

- A. Shoulder
- B. Wrist
- C. Arm
- D. Elbow

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**10. During a surgical procedure, which of the following can be used to ligate blood vessels or tissues?**

- A. Hemostatic forceps
- B. Rochester-Pean forceps
- C. Rochester-Carmalt forceps
- D. Halsted mosquito forceps

**11. What does it mean when a patient is prescribed a medication with the instructions "apply O.S. q.i.d. x 10 days"?**

- A. Apply to the left ear, every six hours, for ten days.
- B. Administer by mouth, every ten hours, for five days.
- C. Apply to the left eye, four times daily, for ten days.
- D. Apply to the right eye, every six hours, for ten days.

**12. Which of the following pieces of information is NOT necessary to be included on a prescription label?**

- A. Name of the prescriber
- B. Address of the dispensing pharmacy
- C. Age of the patient
- D. Date of the prescription

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**13. Which of the drugs listed below is commonly employed for the purpose of decreasing intracranial pressure?**

- A. Mannitol
- B. Prazosin
- C. Pimobendan
- D. Atropine

**14. Which of the following terms refers to the occurrence of having an excess number of teeth compared to the usual amount?**

- A. Oligodontia
- B. Anodontia
- C. Polydontia
- D. Wry mouth



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**15. What is the complete covering on equine teeth?**

- A. enamel
- B. cementum
- C. gingiva
- D. dentin

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**16. In what direction should the flap side of the dental film be oriented?**

- A. Any direction because it does not matter.
- B. Toward the tube head.
- C. Away from the tube head.
- D. The caudal side of the animal.

**17. Which antibiotic is in a class by itself and is used exclusively as a topical or ophthalmic preparation?**

- A. Griseofulvin
- B. Imidazoles
- C. Polymyxin B
- D. Tetracyclines

**18. Which species of animals are susceptible to alcohol (Ethanol, methanol, and isopropanol) toxicity?**

- A. Cats
- B. Dogs
- C. Birds
- D. All

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**19. Which of the following equipment is employed to confine adult pigs?**

- A. V-trough
- B. Squeeze chute
- C. Hobbles
- D. Snare



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**20. Which of the following is a negative effect of an improperly applied bandage?**

- A. Tissue necrosis
- B. Wound debridement
- C. Wound drainage
- D. Immobilization of a limb

**21. Which of the following represents a way for clients to deal with inter-feline aggression in a household?**

- A. Confinement of the cat behaving most appropriately
- B. Forced confinement of all cats in the household
- C. Confinement of the aggressor
- D. Declaw the aggressor

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**22. There are three goals of supplemental oxygen therapy in treating hypoxemic patients, which one is NOT?**

- A. To decrease the work of breathing
- B. To treat hypoxemia
- C. To decrease myocardial work
- D. To Increase respiration

**23. Which of the following colors would be considered normal for the mucous membrane?**

- A. pink
- B. pale
- C. brick red
- D. brown

**24. A "problem oriented medical record" (POMR) is organized in chronological order based on which of the following criteria?**

- A. Each surgical event
- B. Each treatment prescribed
- C. Each identified health problem
- D. Each office visit

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**25. Which interval is NOT one of the three intervals in which death results from trauma in veterinary medicine?**

- A. After 3-5 days of trauma.
- B. Within the first 3-4 hours of trauma.
- C. Within the first 2 days of trauma.
- D. Within minutes of trauma. Rarely such animals seen in the veterinary hospital.

**26. What is the definition of neutropenia?**

- A. A reduction in size of the neutrophils
- B. None of the above
- C. A reduction in the nuclei of the neutrophils
- D. A reduction in circulating neutrophils

**27. When anesthetizing an amphibian, which of the following anesthetics are typically given through a bath method?**

- A. Tricaine methanesulfonate
- B. Halothane
- C. Xylazine
- D. Diazepam

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**28. In preparation for anesthesia, patients with low total plasma protein levels may benefit from administration of plasma.<br/><br/>Which of the following would be considered a low total plasma protein level?**

- A. < 8 g/dL
- B. < 5 g/dL
- C. < 3 g/dL
- D. < 10 g/dL

**29. Which inhalant anesthetic drug is most commonly associated with cardiac arrhythmias in dogs?**

- A. Nitrous oxide
- B. Halothane
- C. Isoflurane
- D. Sevoflurane



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**30. Which of the following statements regarding analgesics is the least accurate?**

- A. Morphine has an analgesic effect 250 times greater than that of fentanyl.
- B. Analgesics are drugs that reduce the perception of pain without loss of other sensations.
- C. Neuroleptanalgesia refers to a state of CNS depression and analgesia induced by a combination of a sedative and an analgesic.
- D. Butorphanol is used for cough control in small animals.



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## Answer Key & Explanations

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### 1. D — To increase contrast

An intensifying screen in a radiograph film cassette serves to enhance contrast by utilizing fluorescent crystals to improve visual detail. Each cassette contains two screens, with the film positioned between them.

### 2. D — 1/4

The intensity of the primary x-ray beam is directly proportional to the distance between the source and the image. At twice the distance, the beam intensity is reduced to 1/4 of its original intensity.

### 3. C — Decrease kVp.

To determine which exposure factor to adjust, first assess whether the image is too dark or too light (use a toast analogy, is the toast burnt or not dark enough?). In this case, since the image is excessively dark, you should reduce the exposure factors. To determine the exposure factor to use, first rule out kVp. This can be determined by examining the contrast. Examine the bones for dark radiography. If the bones appear grey, there has been too much penetration, and the kVp should be reduced by 10 to 15%. If the bones are dark but still have some contrast with the surrounding soft tissue, they have not been overpenetrated, and the issue is excessive mAs. If the radiograph is too light, examine the organs. If the organs are not clearly visible, the area hasn't received adequate penetration, so increase your kVp by roughly 10 to 15% to boost density and contrast. If the organs are visible, penetration was not an issue; therefore, increase mAs to enhance the density of blackness on the radiograph.

### 4. C — Yellow

The yellow coloration can indicate a bile/gallbladder issue. In herbivores, the yellow color can be considered normal.

### 5. D — decreased glucose concentration

If serum is left on the clot for longer than one hour, it will lead to a <strong>decreased glucose concentration</strong> due to utilization by cells in the sample.

### 6. D — RNA polymerase initiates separation of the DNA double helix.

RNA polymerase initiates separation of the DNA double helix to begin RNA transcription.

### 7. D — Glider

The three components of a good blood smear are the body, the monolayer, and the feathered edge. The crucial factor in creating a good smear is the size of the drop applied.

### 8. D — All of the above

One arm is placed around the animal's neck or muzzle and the other is placed around the abdomen of the dog. There are times when a two person hold may be necessary.

### 9. D — Elbow

The term "olecranon" is frequently used to refer to the elbow.



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**10. A — Hemostatic forceps**

Hemostatic forceps are used amid surgical strategies to ligate blood vessels or tissues. Halsted mosquito forceps are used to control capillary dying, so other options are incorrect because Rochester-Pean forceps and Rochester-Carmalt Forceps, are utilized to clamp large bundles of tissues that contain blood vessels, so those choices are too off base.

**11. C — Apply to the left eye, four times daily, for ten days.**

The correct directions for a medication with the instruction "apply O.S. q.i.d. x 10 days" would be to apply it to the left eye four times daily for ten days. O.S. stands for the left eye, and q.i.d. indicates four times daily or every six hours.

**12. C — Age of the patient**

Each prescription label should contain the following information:  
1. Name and address of the dispensing pharmacy  
2. Serial number of the prescription  
3. Date of the prescription  
4. Name of the prescriber  
5. Name of the patient  
6. Name and strength of the drug  
7. Directions for use  
8. Cautionary statements, as appropriate.

**13. A — Mannitol**

Mannitol is commonly employed for the purpose of decreasing intracranial pressure. It is a type of medication known as an osmotic diuretic, which means it works by increasing the concentration of solutes in the blood, drawing excess fluid from the brain tissue and reducing pressure within the skull. This makes it a valuable treatment option for conditions such as cerebral edema, traumatic brain injury, and intracranial hypertension.

**14. C — Polydontia**

Oligodontia is a genetic condition where fewer teeth than usual develop. Anodontia refers to the absence of part or all of the teeth at birth. The condition of one side of the mouth growing faster than the other, causing twisting, is called wry mouth.

**15. B — cementum**

Equine teeth are entirely covered with cementum, allowing the surface to be worn away during grinding. Horses use their lips for prehension.

**16. C — Away from the tube head.**

Most dental films have a flap designed for easier handling during processing. The side of the multilayer film package containing the foil or lead that should not face the tube head is located on this side.

**17. C — Polymyxin B**

Polymyxin B is not absorbed when given orally, so it is only used in topical and ophthalmic medications. It affects the cell membranes of the animal as well as those of the bacteria.

**18. D — All**

All species of animals are susceptible to alcohol (Ethanol, methanol, and isopropanol) toxicity. Alcohol toxicosis results in metabolic acidosis, hypothermia, and CNS depression, with isopropanol being the most toxic.

**19. D — Snare**

It is common to use a snare around the snout to restrain adult pigs.



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**20. A — Tissue necrosis**

Tissue necrosis is a negative effect of an improperly applied bandage.

**21. C — Confinement of the aggressor**

Confining the aggressor is one way for a client to deal with inter-feline aggression in a household. Cat aggression can be covert, so the client may not be present to witness episodes.

**22. D — To Increase respiration**

To Increase respiration is not one of the goals of supplemental oxygen therapy in treating hypoxemic patients.

**23. A — pink**

A pink color of the mucous membranes is considered normal, indicating sufficient perfusion and oxygenation of peripheral tissues.

**24. C — Each identified health problem**

A "problem-oriented medical record" (POMR) is organized chronologically based on each identified health problem. This type of medical record links recorded information to various health problems as they arise.

**25. C — Within the first 2 days of trauma.**

Death resulting from trauma in veterinary medicine does not occur within the first 2 days of the trauma, which is not one of the three intervals.

**26. D — A reduction in circulating neutrophils**

Neutropenia is the reduced quantity of circulating neutrophils. This may occur when tissue requirements exceed the bone marrow's ability to supply neutrophils.

**27. A — Tricaine methanesulfonate**

Tricaine methanesulfonate is typically given through a bath method when anesthetizing an amphibian. This method involves immersing the amphibian in a solution of Tricaine methanesulfonate, which is then absorbed through the skin. This is a common and effective method for inducing anesthesia in amphibians during procedures such as surgery or handling.

**28. C — < 3 g/dL**

A low total plasma protein level would be < 3 g/dL. These patients may require additional preparation before administration of anesthesia.

**29. B — Halothane**

Halothane is the inhalant anesthetic drug most commonly associated with cardiac arrhythmias in dogs. Cardiac arrhythmias are abnormal heart rhythms that can be detrimental to a dog's health. Halothane has been known to cause arrhythmias in dogs due to its effects on the electrical conduction system of the heart.

**30. A — Morphine has an analgesic effect 250 times greater than that of fentanyl.**

This statement is the least accurate. Fentanyl has an analgesic effect that is 50 to 100 times greater than that of morphine.



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