Ms. Wittie's Vet Science CDE Team 2015

Practice:

- Every Tuesday & Thursday, After School (4-5pm)
- <u>MANDATORY</u> Attendance of 1 Practice minimum **EACH** Week, **NO Exceptions**
- First Practice: Jan 22nd (Mandatory Attendance does not apply)

Team Format:

- There will only be 4 people on the team and one alternate.
- Each week a Practice test, exam or assignment will be given. At the end of each week, rankings will be posted. Top 5 individuals by March 5th, will make the team.

Requirements:

- Each member of the Team will be required to purchase Medical Scrubs, both top and bottom. Solid tops and Solid bottoms are required; the team will be allowed to choose the colors after March 5th. Scrubs MUST be purchased by March 24th.

Check List of Materials:

 _ Rules & Regulations
 Identification Breeds & Species List
 Identification Instruments List
_ Identification Organs & Parasites List
 Vet Science Example Scan Sheet
Vet Science Test Question Bank
_ Vet Science Test Question Bank - Key

YET TO COME:

Rubrics for the Practicums will be released at a later date. As soon as they are released, they will be distributed with instructions for the practicum.

VETERINARY SCIENCE CDE

3 or 4 Member Team

I. PURPOSE

To promote career and post-secondary readiness by providing opportunities to develop knowledge and demonstrate skills in the field of veterinary science.

II. EVENT FORMAT

A. Team make up

- 1. The event will be a team event consisting of three or four students. The top three score count toward the team total.
- 2. It is required that participants be in official FFA dress OR medical scrubs (the only logos permissible on shirts are school or organizational logos). All team members must be dressed alike. Team members must all have solid color matching pants and solid color matching tops, regardless of the color combination. Students will be allowed to correct the dress code problem as long as the start time of the event is not effected.
- 3. Time allowed to complete the various event components is contingent on the practicums being conducted. The event provider shall exercise discretion in determining time allowed.

III. Equipment/Materials

- 1. Contestant must provide his/her own transparent clipboard.
- 2. Contestant must bring his/her own pencil and scan sheet to the contest.
- 3. No notes, books, pictures, or other materials are permitted.
- 4. Contestant may bring a basic, non-programmable calculator.
- 5. Contestants may use a copy of the scan sheet to record their answers for review after the contest.
 - 6. Blank paper will be provided at the contest site.
 - 7. Section or group leaders will not return scan sheets after a student has turned them in.

IV. Classes/Practicums

A. Written Test (100 points)

The test will consist of 50 questions, each question worth two points. The questions will come from a file of 285 questions from the veterinary science CDE link located at www.texasffa.org \square events \square CDE.

B. Identification (150 points)

The identification portion will consist of:

- 1. Five Exotic animal breeds and 20 domestic animal breeds (two points each)
- 2. 25 Equipment/materials (two points each)
- 3. 25 Parasites and animal body parts (two points each)
 - a. The student will correctly position slides, set up a microscope to identify internal and external parasites. The student will also correctly identify internal organs from cats, dogs, swine, cattle, sheep, goats, or horses. Each identification will be worth two points. These will come from a list found on the Texas FFA CDE website on the Veterinary Science CDE link. (texasffa.org \square events \square CDE) Animal body part may be high quality pictures or real body parts.
- C. Veterinary Science Skills Individual Practicum Rotation (100 points)
 - 1. This practicum is designed to evaluate participant's knowledge of and ability to evaluate common laboratory, radiology and examination procedures performed in a

veterinarians' clinic. Some skills may require participants to complete posology calculations. A practicum may combine more than one skill which is listed for the designated contest year. In some cases, contestants may be provided a written scenario that they must assess to determine correct solutions. Students will prepare for a possibility of five veterinary skills described below. The providers will select two of these skills to evaluate using a standard rubric. The two skills may be performed separately or together. The practicum will alternate as noted:

• 2015 -

Calculating percent solutions for a medication

Filling a prescription using instruction from the veterinarian

Administering routine immunization to the most common small or large animals Naming and locating common sites for venipuncture employed in all domestic animals

V. TOTAL TEAM SCORE

Written Exam	100 points	
Identification	150 points	
Skills practicum	100 points	
TOTAL	POINTS INDIVIDUAL	350 points
TEAM	1050 points	33 1

VI. TIEBREAKER

Team and Individual tiebreakers will be settled in the following order:

- 1. Team with the higher score in the identification section wins.
- 2. If still tied, the team with the higher score in the skills practicum Part 1 wins.
- 3. If still tied, the team with the higher score on the written exam wins.
- 4. If still tied, the team with the highest alternate score wins. Ties for individual awards shall be broken by substituting the word "individual" wherever the word "team" appears above.

VII. REFERENCES

The resources used to establish this contest are listed below. You may use these resources in your efforts to study for this contest.

- Veterinary Assistant handbook- First Edition Author: Floron C. Faries, Jr.
- Instructional Materials Service, Texas A&M University
- Cornell Veterinary Curriculum (Vet. Terminology, Clinical exams, Hospital Procedures, Parasitology, Laboratory Techniques, Animal Nutrition, posology, and Principles of Disease).
- Veterinary Instruments and Equipment-A Pocket Guide Author: Teresa F Sonsthagen, BS, LVT
- Elsevier Mosby ISBN-13: 978-0-323-03203-2
- Review Questions and Answers for Veterinary Technicians Author: Thomas P Colville, DVM
- Mosby ISBN-13 978-0-323-01926-2
- American Kennel Club Breed Website www.akc.org/breeds/
- Cat Fanciers' Association Breed Website www.cfainc.org/breeds.html
- Oklahoma State University-Animal Science Website

Texas Veterinary Science CDE Breed List

	Texas Veterinary S	cience CDE Breed List	
Cattle Breeds	142 Quarter Horse	183 Egyptian Mau	EXOTICS
100 Angus	143 Shetland Pony	184 Exotic Shorthair	220 Angora rabbit
101 Ayrshire	144 Shire	185 Havana Brown	221 Ball Python
102 Beefmaster	145 Tennessee Walking Horse	186 Maine Coon	222 Burmese Python
103 Belted Galloway	146 Thoroughbred	187 Manx	223 Californian rabbit
104 Braford		188 Persian	224 Chinchilla
105 Brahman	Dog Breeds	189 Persian Himalayan	225 Chinese Dwarf hamster
106 Black Brangus	147 Australian Cattle Dog	190 Russian Blue	226 Columbian Red-tail Boa
107 Braunvieh	148 Bassett Hound	191 Scottish Fold	227 Cockatiel
108 Brown Swiss	149 Beagle	192 Selkirk Rex	228 Cockatoo
109 Charolais	150 Bloodhound	193 Siamese	229 Common Snapping Turtle
110 Gelbvieh	151 Border Collie	194 Somali	230 Desert horned lizard
111 Guernsey	152 Boxer		231 English Lop rabbit
112 Hereford	153 Bulldog	Goat/Sheep/Swine Breeds	232 Ferret
113 Holstein	154 Chihuahua	195 Angora goat	233 Gerbil
114 Jersey	155 Chow Chow	196 Boer goat	234 Green Tree Frog
115 Limousin	156 Cocker Spaniel	197 Spanish goat	235 Guinea Pig
116 Maine Anjou	157 Dachshund	198 Barbado sheep	236 Hedge Hog
117 Polled Hereford	158 Dalmatian	199 Columbia sheep	237 Honduran Milk Snake
118 Red Angus	159 Doberman Pinscher	200 Dorper sheep	238 Iguana
119 Red Brangus	160 English Cocker Spaniel	201 Dorset sheep	239 Long Hair Teddy-Bear
120 Santa Gertrudis	161 Golden Retriever	202 Hampshire sheep	Hamster
121 Shorthorn	162 Great Dane	203 Rambouillet sheep	240 Lovebird
122 Simmental	163 Labrador Retriever	204 Southdown sheep	241 Mata Mata
123 Texas Longhorn	164 Lhasa Apso	205 Suffolk sheep	242 New Zealand Rabbit
	165 Pomeranian	206 American Landrace swine	243 Parakeet
Horse Breeds	166 Poodle	207 American Yorkshire swine	244 Prairie Dog
124 Andalusian	167 Pug	208 Berkshire swine	245 Red Ear Slider
125 Appaloosa	168 Rottweller	209 Chester White swine	246 Savannah Monitor
126 Arabian	169 Shetland Sheepdog	210 Cross/Blue Butt swine	247 Scarlett Macaw parrot
127 Belgian	170 Shih Tzu	211 Duroc swine	248 Southern Flying Squirrel
128 Buckskin	171 Welsh Corgi	212 Hampshire swine	249 Sugar Glider
129 Clydesdale	172 Yorkshire terrier	213 Hereford swine	250 Yellow Canary
130 Dutch draft		214 Pietrain swine	
131 Dutch Warmblood	Cat Breeds	215 Poland China swine	
132 Friesian	173 Abyssinian	216 Red Wattle swine	
133 Hackney	174 American Curl	217 Spotted swine	
134 Hanoverian	175 Balinese	218 Tamworth swine	
135 Lipizzan	176 Birman	219 Vietnamese Potbelly swine	1
136 Miniature Horse	177 Burmese		
137 Mustang	178 Color Point Shorthair		
138 Paint Horse	179 Cornish Rex		
139 Palomino	180 Devon Rex		
140 Paso Fina	181 Domestic Longhair		

141 Percheron

182 Domestic Shorthair

2014 Vet Tech Instrument List

001 Alligator forceps	038 Groove director	072 Pole syringe
002 All-in-one castrator,	039 Guillotine nail trimmer	073 Rectal prolapse ring
docker, and ear marker	040 Half circle taper point	074 Refractometer
003 Ambu bag	suture needle	075 Reimer emasculator
004 Artificial Vagina	041 Half curved cutting edge	076 Restraint gloves
005 Autoclave	suture needle	077 Rumen Magnet
006 Automatic dose syringe	042 Half curved tissue	078 Scalpel handle
007 Backaus towel forceps	forceps	079 Silver nitrate stick
008 Balling Gun	043 Halstead mosquito	080 Spay hook
009 Barnes Dehorner	forceps	081 Sphygmomanometer
010 Bone-plate bender	044 Hartman mosquito	082 Spring mouth speculum
011 Brown-Adson tissue	forceps	or gag
forceps	045 Hemacytometer	083 Stethoscope
012 Bulb syringe	046 Holzheimer retractor	084 Stomach tube
013 Burdizzo	047 Hoof trimmer for sheep	085 Tarter scrapers single
014 Castroviejo needle	and goats	ended
holder with catch	048 Horn gouge	086 Tattoo outfit manual
015 Cornell teat curette	049 Identification tag	087 Taylor percussion
016 Dental rasp	applicator	hammer
017 Dental tooth punch	050 Incisor, canine, and	088 Teat slitter
018 Depth probe and	premolar extracting	089 Three way stopcock
explorer	forceps	090 Tom cat catheter
019 Differential cell counter	051 Insemination pipette	091 Transfer needle
020 Dog snare or capture	052 Intravenous drip set	092 Twitch-chain
pole	053 Iris hook	093 Twitch-humane
021 Doppler ultrasonic blood	054 Jacquette tartar scaler	094 Umbilical clamp
flow monitor	055 Kelly forceps	095 Vetamatic dose syringe
022 Drench pump	056 Killian vaginal speculum	096 White emasculator
023 Drench-matic dose	057 Knowles bandage	097 White nail trimmer
syringe	scissors	098 Wood's light
024 Ear notcher	058 Lens loop	099 X-ray measuring caliper
025 ECG monitor	059 Lister bandage scissors	
combination	060 Mayo scissors	
026 Elastrator	061 Mayo-Hegar needle	
027 Elizabethan collar	holder	
028 Endoscope	062 Needle-sterilizing rack	
029 Endotracheal tube	063 Olson-Hegar needle	
030 Esophageal stethoscope	holder-scissors	
031 Equine molar-extracting	combination	
forceps	064 Operating scissors	
032 Eye speculum	065 Opthalmoscope	
033 Fecal loop	066 Oral calf drencher	
034 Feline restraint bag	067 Otoscope	
035 Female canine catheter	068 Pet piller	
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070 Pill splitter

069 Pig tooth nipper

speculum

071 Polansky canine vaginal

036 Fetal extractor (calf

037 Forester sponger holding

puller)

forceps

2014 Parasite/Internal Organs

300 Ancylostoma-Hookworm	320 Strongylus vulgaris - Large Strongyle
301 Anoplura (sucking)-Lice	of the Horse
302 Argasidae-soft ticks	321 Taenia pisiformis - Tapeworm dog
303 Ctenocephalides canis-flea	322 Toxascara canis - Roundworm
304 Ctenocephalides felis-flea	323 Trichuris vulpis- Whipworm
305 Demodex-Mite	
306 Dipylidium caninum-Tapeworm Dog	324 Brain
and Cat	325 Cecum
307 Dirofilaria immitis-Heartworm Adult	326 Cervix
308 Fasciolahepatica-Liver fluke of cattle	327 Fallopian tubes
and sheep	328 Gall bladder
309 Gasterophilus hemorrhoidalis-Bot	329 Hairball/Furball
Fly of the Horse	330 Hardware
310 Giardia Cyst	331 Heart
311 Giardia Troph	332 Kidney
312 Heartworm Microfilaria	333 Liver
313 Isospora-dog and cat protozoa	334 Lungs
314 Ixodidae- hard tick	335 Ovary
315 Mallophaga (chewing) – Lice	336 Spleen
316 Otodectes - ear mite	337 Stomach system
317 Sarcoptes- mite	338 Gall Stones
318 Stephanurus dentatus – kidney	339 Testicle
worm in swine	340 Trachea
319 Strongyloides westeri – Intestinal	341 Uterus

Threadworms of the Horse

CDE# 105482

Team Name

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Veterinary Technology Question Bank

- 1. The four things that ONLY a veterinarian may do are:
 - a. Prescribe medications
 - b. Perform surgery
 - c. Provide a diagnosis and a prognosis
 - d. All of the above
- 2. The capillary refill time (CRT) for Buddy is 1 second. In the patient chart, the CVA records that the CRT for Buddy is:
- a. Abnormally low
- b. Normal
- c. Abnormally high
- d. Not enough information to record
- 3. When evaluating the integumentary system of Rowdy, a Palomino, the CVA would evaluate all of the following areas EXCEPT:
- a. Skin and hide
- b. Mucous membranes
- c. Hooves
- d. Hair
- 4. When an animal is presented with an abnormality cranial to a certain body structure, the word cranial means:
- a. Toward the head
- b. Toward the tail
- c. Toward the nose
- d. Closest to the midline
- 5. The feline's first line of defense is:
 - a. Its teeth
 - b. Its claws
 - c. Its tail
 - d. Its hind legs
- 6. You are restraining a Besenji dog for cephalic venipuncture. When the person performing the injection has placed the needle and is ready to inject the drug, he says to you, "Okay." He is most likely asking you to:
 - a. Verbally indicate that he has made contact with the vein
 - b. Lift the thumb that is occluding the vein
 - c. Release the animal from restraint
 - d. Roll the vein in the opposite direction
- 7. Use the following scenario to answer the next two questions. An otherwise healthy veterinary technician, Anna, is bitten by a 2-year-old mixed-breed dog, "Tow Tow," while restraining him for a pedicure. The bite does not cause severe tissue damage, but the canine teeth penetrate her skin and she does bleed. Tow Tow is current on all of his vaccinations including rabies. He lives primarily in the backyard of his owner's suburban home. What is the best, first action Anna should take following the bite?
 - a. Ignore the bite until she has time to wash it, even though this may not be for a few hours. Once there is time, also inform the veterinarian or office manager.

- b. Wash the wound immediately with soap and water, then with povidone-iodine, and follow with a thorough irrigation with water, then inform the veterinarian or office manager.
- c. Wait until she gets home and clean the wound, without notifying the veterinarian because she fears she will be reprimanded.
- d. Tell a coworker about it, but take no more action regarding the incident.

8. Anemia is:

- a. The study of parasites.
- b. A single celled animal.
- c. A decrease in the number of red blood cells.
- d. A disease that can be transmitted from animals to humans.

9. Pericardium is:

- a. The muscular layer of the heart wall.
- b. The fibrous sac that encloses the heart.
- c. A thin layer that lines the surface of the heart.
- d. A thin layer that lines the inside of the heart.

10. A compound fracture is one in which:

- a. The break is along the axis of a bone.
- b. The bone shatters in the many pieces.
- c. The break is on one side of the bone.
- d. The bone breaks through the skin.

11. An orchiectomy:

- a. Removal of the ovaries and uterus.
- b. Removal of the testes.
- c. An incision into the thorax.
- d. Removal of a tumor.

12. Microfilaria are:

- a. The larval stage of the heartworm.
- b. The segment of the tapeworm containing the male and female reproductive organs.
- c. Microscopic single celled organisms.
- d. None of the above.

13. The abomasum is:

- a. The first compartment of the ruminant stomach.
- b. The second compartment of the ruminant stomach.
- c. The third compartment of the ruminant stomach.
- d. The fourth compartment of the ruminant stomach.

14. The function of the cecum is to:

- a. Produce bile.
- b. Aide in the digestion of fibrous materials.
- c. Produce insulin.
- d. None of the above.

15. Carbohydrates contain or include:

- a. Amino Acids
- b. Simple Sugars
- c. Lipids
- d. None of the above

16. Which organization governs the use, storage and disposal of controlled substances? a. EPA b. DEA c. OSHA d. None of the above
17. Which zoonotic disease is fatal in humans? a. Corona b. Rabies c. Parvovirus d. Scabies
18. Diseases that can be transmitted to humans are known as: a. Contagious b. Benign c. Malignant d. Zoonotic
19. Which of the following diseases is not a disease that affects dogs? a. Rabies b. Distemper c. Black Leg d. Hepatitis
20. Which of the following substances is not considered a bio-hazardous substance? a. Scalpel blade b. Syringe c. Microscope Slide d. Needle
 21. Which of the following bedding materials is most commonly used in the small animal clinic? a. Pine Shavings b. Newspaper c. Blankets and Towels d. Straw
22. Which of the following needles has the smallest bore? a. 16 gauge b. 20 gauge c. 21 gauge d. 25 gauge
23. Which of the following needles would most commonly be used for canine vaccinations? a. 16 gauge b. 20 gauge c. 21 gauge d. 25 gauge
24. Which of the following acronyms is used when administering medication twice a day? a. TID b. QID c. BID

- 25. Which of the following animals would be classified as a Hound Breed?
- a. Chihuahua
- b. Dachshund
- c. Cocker Spaniel
- d. French Bulldog
- 26. Which of the following cattle breeds would be considered a dairy breed?
- a. Shorthorn
- b. Polled Hereford
- c. Brown Swiss
- d. Gelbvieh
- 27. Which of the following hazards is associated with radiography?
- a. Hearing Loss
- b. Burns or scalds
- c. Cancer
- d. None of the above.
- 28. Determine the number of pounds in 10.5 kilograms.
- a. 25.5
- b. 24.6
- c. 21.9
- d. 23.1
- 29. Which of the following parasites is considered an endoparasite?
- a. Fleas
- b. Ticks
- c. Hookworms
- d. Mites
- 30. Dystocia can be defined as:
- a. The carrying of an embryo or fetus.
- b. The process of giving birth.
- c. Abnormal or difficult birth.
- d. A birth in which the offspring enters the birth canal hind end first.
- 31. Referring to the lower or bottom view:
- a. Dorsal
- b. Ventral
- c. Cranial
- d. Anterior
- 32. Which of the following breeds of sheep is considered a fine wool breed?
 - a. Southdown
 - b. Suffolk
 - c. Hampshire
 - d. Rambouillet
- 33. Kyra, a 7-year-old, F/S mixed breed dog (107 lb) is presented to the clinic with signs of increases vocalization and urine leaking. She does not appear to be PU/PD (increased urination/increased drinking) or having accidents due to lack of training. She usually leaks urine after she has lain down (her bed is damp). The U/A (urinalysis) is WNL as the PE. Scout

radiographs of the urinary bladder are unremarkable. Based on her history and pattern of urine leaking, the vet determines that she might have estrogen responsiveness incontinence. She is prescribed DES (diethylstilbestrol) at a dosage of 1 mg po sid for 3 days, followed by maintenance therapy of 1 mg po per week. DES comes in 1-mg and 5-mg tablets. How many tablets does this dog receive for the first three days?

a. 5

b. 4

c. 3

d. 2

34. Indicate the tablets/capsules prescribed for the following order: Rx: Metronidazole tablets 250 mg Sig: 1 tablet, P.O., BID x 10 days

a. 10 tablets

b. 20 tablets

c. 30 tablets

d. 40 tablets

35. You regularly order six 10-ml vials per month of a drug that has a concentration of 50 mg/ml. Now that same drug is only available in 20-ml vials of 10 mg/ml. How many vials should you order this month?

a. 25 vials

b. 20 vials

c. 15 vials

d. 10 vials

36. The order is for 500 mg of amoxicillin, and tablets on hand are 250 mg. How many tablets will be administered?

a. 1 tablet

b. 2 tablets

c. 5 tablets

d. 6 tablets

37. Indicate the minimum amount of tablets/capsules prescribed for the following order: Rx: Ascriptin tablets Sig: 1 tab P.O., BID x 14 days then 1 tab BID prn

a. 28 tablets

b. 24 tablets

c. 20 tablets

d. 16 tablets

38. A 13-year old M/N domestic short hair (DSH) named Buttons has a bite wound in the right side of the mandible. The owner does not know when the cat got the bite wound because Buttons is an outside cat. He has not been eating or drinking the past few days, is lethargic, and on PE has a T=103.5, HR = 180 bpm, and RR = 45 breaths/min. Other than the mandibular wound, he is healthy. He is current on vaccinations. The decision is made to sedate Buttons so that the wound can be clipped, cleaned, and debrided. You must calculate the dose of injectable anesthetic for Buttons, who weighs 12.5 lb. The dosage of Ketamine is 22 mg/kg IM. The concentration listed on the vial of ketamine is 100 mg/ml.

The animal's weight in kg is?

a. 2.4 kg

b. 5.7 kg

c. 7.1 kg

d. 9.9 kg

39. The order is 0.5 mg of Centrine, and 0.2 mg tablets are on hand. How many tablets will be administered? a. 1.0 tablets b. 1.5 tablets c. 2.0 tablets d. 2.5 tablets	
40. A cat in end-stage renal disease is receiving epoetin (2000 u/ml). The dose is 100 u/kg. Yo patient weighs 5.5 lb. How many units will you deliver? a. 250 b. 500 c. 750 d. 1000	ur
41. Translate the following into percents: 1:100 a05% b5% c. 1% d. 1.5%	
42. 1000 mg = g a001 b01 c. 1 d. 10	
43. How many mgs of a drug should be given to a patient weighing 22 lb if the dose is 0.2 mg/k a. 2 mg b. 2.2 mg c. 22 mg d. 22.2 mg	<u>∢</u> g?
44. Indicate the tablets/capsules prescribed for the following order: Rx: Cephalexin capsules 2 mg Sig: 2 caps P.O., STAT; then 1 cap P.O., BID x 14 days a. 30 capsules b. 40 capsules c. 50 capsules d. 60 capsules	50
45. The veterinarian orders 4.4 mg/kg of carprofen for pain control divided into two equal dail doses for a 50-lb dog. On hand are 100-mg scored tablets. How many tablets is/are administer each morning and afternoon? a. 5 tablets in the morning and 2 in the afternoon b. 1 tablet in the morning and afternoon c5 tablets in the morning and 1 in the afternoon d5 tablets in the morning and afternoon	
46. The level of fluid in the liter bags reads at the 700 mark. How much fluid has been given? a. 700 L b. 700 ml c. 300 L d. 300 ml	

47. Fenbendazole (10% suspension) is an antiparasitic drug used in the treatment of whipworms,
roundworms, hookworms, and some species of tapeworms. For dogs the dosage is 50 mg/kg po for
3 days. How many mls would you give a dog that weights 50 lbs?

a. 9.5 mls

b. 11.4 mls

c. 12.1 mls

d. 14.3 mls

48. Kyra, a 7-year=old, F/S mixed breed dog (107 lb) is presented to the clinic with signs of increases vocalization and urine leaking. She does not appear to be PU/PD (increased urination/increased drinking) or having accidents due to lack of training. She usually leaks urine after she has lain down (her bed is damp). The U/A (urinalysis) is WNL as the PE. Scout radiographs of the urinary bladder are unremarkable. Based on her history and pattern of urine leaking, the vet determines that she might have estrogen responsiveness incontinence. She is prescribed DES (diethylstilbestrol) at a dosage of 1 mg po sid for 3 days, followed by maintenance therapy of 1 mg po per week. DES comes in 1-mg and 5-mg tablets. How many mg does this dog receive for 3 weeks of treatment?

a. 3

b. 5

c. 7

d. 9

49. "Max" needs 30 mg. Gentocin IV Gentocin comes in two different concentrations; 50 mg/ml or 100 mg/ml. Using 50 mg/ml, how many ml would you draw up? AND Using 100 mg/ml, how many ml would you draw up?

a. 0.6 ml and 0.3 ml

b. 6 ml and 3 ml

c. 0.3 ml and 0.6 ml

d. 3 ml and 6 ml

a. 2

b. 20

c. 200

d. 2000

51. To prevent inhaling gas when you are monitoring anesthesia, it is best for you to stand:

- a. Close to the patient's head.
- b. Away from the patient's head.
- c. Anywhere in the room.
- d. Outside of the room.

52. When treating or assisting a doctor with an animal's abscess wound, it is important to:

- a. Wear disposable gloves.
- b. Disinfect the treatment counter thoroughly.
- c. Wash and disinfect all instruments used.
- d. All of the above.

53. If you are bitten, scratched or cut when working around animals, you should:

- a. Wash thoroughly with water and a disinfecting soap, then notify your supervisor.
- b. Quickly rinse out the area.

- c. Just wipe the blood off and bandage if needed.
 d. None of the above.

 54. Rabies is transmitted through:

 a. Blood from the affected animal
 b. Urine from the affected animal
 c. Feces from the affected animal
- 55. Lyme disease is caused by a:

d. Saliva from the affected animal

- a. Bacteria
- b. Virus
- c. Parasite
- d. Fungus
- 56. One of the fastest means of getting drugs in to the bloodstream is:
 - a. Orally
 - b. Intranasally
 - c. Topically
 - d. Intravenously
- 57. Nebulized is defined as:
 - a. Turned into a liquid
 - b. Turned into a fine mist
 - c. Turned into molecules
 - d. Turned into oxygen
- 58. The Snap Canine Heartworm Test tests the blood for:
 - a. Adult heartworms
 - b. Antigen produced by female heartworms
 - c. Microfilaria
 - d. Female heartworms only
- 59. When in the heart, heartworms congregate in the:
 - a. Right ventricle
 - b. Right atrium
 - c. Left ventricle
 - d. Left atrium
- 60. The amount of fecal matter needed for a canine or feline fecal analysis is approximately:
 - a. The size of a baseball
 - b. The size of a golf ball
 - c. The size of a grapefruit
 - d. The size of a grape
- 61. Which internal parasite is the most common in puppies and kittens?
- a. Roundworm
- b. Hookworm
- c. Whipworm
- d. Giardia
- 62. The roundworm is often described as looking like:

a. Rice b. Spaghetti c. Flakes d. Leech	
63. Whipworm eggs look like a/an	_ under a microscope.
a. Circle b. Oval c. Rectangle d. Cone	
64. What type of mite can cause a zoonotic disease?	
a. Demodectic b. Otodectes c. Sarcoptic d. All of the above	
65. What is the vector for heartworms?	
a. Tick b. Lice c. Flea d. Mosquito	
66. Ideally, a horse should be bedded on	
a. Newspaperb. Strawc. Walnut shavingsd. Wood shavings	
67. Which of the following disinfectants is toxic to cats?	
a. Phenolsb. Bleachc. Quatsd. None of the above	
68. What is the common percentage of Brahman and Briti	sh breeds in American cattle?
a. 3/5, 2/5 cross b. 3/7, 4/7 cross c. 1/3, 2/3 cross d. 3/8, 5/8 cross	
69. Which of the following breeds of dairy cattle produce t	he most milk?
a. Jersey b. Guernsey c. Holstein	

d. Brown Swiss
70. The breed of swine that is characterized by being solid black with a white belt at the shoulder and small erect ears is:
a. Duroc b. Spots c. Hereford d. Hampshire
71. The is white in color and has large drooping ears that cover most of its face.
a. Yorkshire b. Chester White c. American Landrace d. Hereford
72. Which breed of swine is characterized by being black in color with four white feet and/or legs, short wrinkled snout, and medium erect ears?
a. Spots b. Berkshire c. Hereford d. Hampshire
73. The is characterized by a red with white face (not less than 2/3 red, exclusive of face and ears), with at least 2 white feet, long face/snout, and small to medium erect ears.
a. American Landrace b. Hereford c. Berkshire d. Duroc
74. An eight month old Chihuahua was stung by a wasp and had a fluctuation in its heart rate. What term describes its fluctuating heart rate?
a. Arrhythmia b. Auscultation c. Bradycardia d. Tachypnea
75. Annie is helping to examine a patient. She is instructed to take the temperature, pulse and respiration, which is a crucial part of a physical exam. Which of the following factors does not affect TPR?
a. age b. size c. environmental temperature d. breed
76. Which of the following answers best completes this statement?

Temperature, pulse and respiration rates tend to as size o	f the animal
·	
a. increase, decreases b. decreases, decreases c. shallow, decreases	
d. decreases slowly, decreases rapidly	
To Sue is taking the temperature and pulse of May a medium sized dec	TA71 1 11

- 75. Sue is taking the temperature and pulse of Max, a medium sized dog. What should she expect the temperature and pulse rate to be? :
- a. 100°F and 100-145 beats/min.
- b. 102°F and 70-120 beats/min.
- c. 100°F and 70-120 beats/min.
- d. 101°F and 60-90 beats/min.
- 76. Lauren is taking a patient history from Ms. Harper about her horse. Which is the most appropriate question for her to ask?
- a. "Is your horse drinking a lot of water and eating okay?"
- b. "How much water is it drinking and how much is it eating?"
- c. "Is your horse able to exercise daily?"
- d. "Is you horse drinking more water now than compared to a few months ago?"
- 77. A vet diagnosed Bill's goat with dyspnea. What does this mean?
- a. The lamb has normal breathing.
- b. The lamb has abnormal heart sounds.
- c. The lamb has difficulty breathing.
- d. The lamb has bluish discoloring of its skin.
- 78. Jane is taking a dog's pulse. What is the name of the artery where she will do this?
- a. Femoral artery
- b. Brachiocephalic artery
- c. Facial artery
- d. Carotid Artery
- 79. During an exam, Julie must take vital signs from an animal. Which of the following steps is the most correct procedure for her to take the rectal temperature?
- a. Shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 1 minute, remove and rotate to read.
- b. Shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 3 minutes, remove and rotate to read.
- c. Wipe thermometer with alcohol, shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 1 minute, remove and rotate to read.
- d. Wipe thermometer with alcohol, shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 3 minutes, remove and rotate to read.
- 80. The average pulse (beats/min) and respiration (breaths/min) for a horse is

b. 60-70, 10-30 c. 30-60, 8-16 d. 60-90, 12-20
81. A stethoscope is a common piece of equipment used for clinical exams. The stethoscope is used to listen to the heart, lungs, and
a. murmurs b. gastrointestinal sounds c. pre-natal sounds d. water on the lungs
82. The veterinarian is describing to Spike's owner how he'll be neutered. Neuter is defined as:
 a. Having resistance to a disease b. The common term for removal of male reproductive organs c. Proteins produced by lymph system d. Swelling and inflammation
83. The veterinarian is explaining to Sally's owner how she will be spayed. Spay is defined as:
 a. Substance that induces an immune response b. Swelling and inflammation c. The common term for removal of female reproductive organs d. Allergic response
84. If an animal was suffering from anaphylactic shock, it would be
a. An exaggerated allergic response b. Proteins produced by lymph system c. Minerals in the blood stream d. Slippery white film
85. An animal is being given a vaccine. Vaccine is defined as
 a. A suspension of killed or modified microorganisms that stimulate an immune response when introduced into the body b. Swelling and inflammation c. More susceptible to disease d. Having no resistance to disease
86. An animal is vaccinated for rabies. Rabies is caused by:
a. A rhabidovirus b. Parvo virus c. Bacteria d. Fungus
87. Lauren is bandaging Bruce, a four year old horse. Leg bandages on horses are started on the part of the leg and wrapped toward the back.
a. Vertical b. Horizontal

c. Lateral d. Proximal
88. The bellyband should slightly as it is wrapped.
a. Overlapb. Space outc. Cut off circulationd. Never touch
89. Immunity is defined as:
a. Having resistance to a disease due to the formation of antibodies.b. Slow and painful abscessc. Rhabidovirusd. Not being able to tolerate disease
90. A kitten is suffering from FCV. Feline calicivirus is caused by:
a. RNA virus b. Fungus c. Bacteria d. Does not exist
91. Feline viral rhinotracheitis symptoms include:
a. Sneezing, discharge from nose and eyesb. Anorexiac. Aggressiond. Licking of wound
92. Leptospirosis is caused by:
a. Leptospira bacteriab. DNA virusc. Borrelia burgdorferi bacteriad. None of the above
93. Symptoms of distemper include:
a. Lamenessb. Swollen jointsc. Aggressiond. Fever, vomiting, diarrhea, nasal secretions, and seizures
94. Rabies is transmitted by:

a. Bite from a tickb. Ingestion of fecal material from infected dogc. Contamination of wound by salivad. Inhalation bacteria

95. Frank, a 60lb bulldog, needs to get 60 mg of Prednisone once every other day for 10 days. How many total milligrams of Prednisone does Frank need for 10 days?
a. 450 mg b. 300 mg c. 900 mg d. 100 mg
96. In reference to the previous questions, how many tablets will be dispensed for the 10 days (Prednisone will come in 30 mg tablets)?
a. 10 b. 20 c. 90 d. 110
97. Linda is going to perform a laboratory test. Where is it possible that she will be doing this?
a. Veterinary hospitals b. Research facilities c. Zoos d. All of the above
98. In preparation for her CVA test, Mary is studying systems of the body. Which of these is NOT included in the circulatory system?
a. Heart b. Lymphatics c. Blood Vessels d. Blood
99. If an animal has problems in the right side of the heart, what other problem will likely occur?
a. Ascites b. Lung congestion c. Nerve Degeneration d. Osteoporosis
100. Luke, a border collie, has a problem in the left side of the heart. What other problem will likely occur?
a. Ascites b. Lung congestion c. Nerve Degeneration d. Osteoporosis
101. Mary is also studying the physiology of the body systems. Which of these is a function of the circulatory system?
a. Respiration for the bodyb. Urination of waste productsc. Transportation of nutrients, blood cells, gases, etc.d. Protection of the body

102. Which of these is the correct flow of blood through the heart?

- a. Right Atrium, Right Ventricle, Pulmonary Arteries, Lungs, Pulmonary Veins, Left Atrium, Left Ventricle, Aorta
- b. Left Atrium, Left Ventricle, Pulmonary Arteries, Lungs, Pulmonary Veins, Right Atrium, Right Ventricle, Aorta
- c. Right Atrium, Right Ventricle, Pulmonary Veins, Lungs, Pulmonary Arteries, Left Atrium, Left Ventricle, Aorta
- d. Left Atrium, Left Ventricle, Pulmonary Veins, Lungs, Pulmonary Arteries, Right Atrium, Right Ventricle, Aorta
- 103. What are the percentages of cells and plasma in blood?
- a. 40% and 60%, respectively
- b. 50% and 50%, respectively
- c. 60% and 40%, respectively
- d. 30% and 70%, respectively
- 104. Which of these is NOT part of the process of filtration of the blood through the urinary system?
- a. Nephrons
- b. Medulla
- c. Vena Cava
- d. Kidney
- 105. While Linda was running a laboratory test, she evaluated total plasma protein, and noticed an elevated total plasma protein. This is a sign of
- a. inflammation
- b. infection
- c. dehydration
- d. all of the above
- 106. In most species, what are the kidneys shaped like?
- a. Pears
- b. Circles
- c. Clovers
- d. Beans
- 107. Sammy is trying to run a urinalysis. He first has to obtain urine from the dog. How can he obtain urine from an animal?
- a. Free Catch
- b. Cystocentesis
- c. Catheterization
- d. All of the above

108. Sammy is trying to determine the specific gravity of urine. What tools can be used to accomplish this?

- a. Refractometer
- b. Urinometer
- c. Reagent Strips
- d. All of the above

109. Sammy found a decreased specific gravity in the urine. This could indicate all of the following EXCEPT:

- a. increased water intake
- b. shock
- c. chronic renal disease
- d. other diseases

110. If Sammy had noticed an increased specific gravity, it could indicate all of the following EXCEPT:

- a. chronic renal disease
- b. dehydration
- c. decreased water intake
- d. acute renal disease
- 111. Which of these is a chemical that Sammy would NOT have evaluated in urine?
- a. Ketones
- b. Glucose
- c. Blood
- d. Saline
- 112. Which of these cells would Sammy NOT expect to see in an examination of urine sediment?
- a. Red blood cells
- b. Viral cells
- c. White blood cells
- d. Epithelial cells

Read the following paragraph. Then answer the questions below.

I live in a rural farming community where everyone owns some breed of dog. A few houses down from mine lives an Australian Cattle Dog (a.k.a. Blue Heeler) named Rigo. She is quite accustomed to guarding her territory against rodents, skunks, coyotes, and rabbits. Rigo was found with a half-eaten rabbit a few months ago and then gave birth to a litter of eight puppies a few weeks later. When they were old enough for their first set of vaccinations the veterinarian found that all the puppies were infested with hookworms. The veterinarian prescribed medication for all patients, including Rigo, and told my neighbor that they should be rechecked at their next visit.

113. Rigo's hookworm infection could have been caused by which of the following?

- a. Direct ingested larvae from the environment or contracted larvae through the skin
- b. Indirect the rabbit could have been infected
- c. Rigo does not have a hookworm infestation
- d. Both a and b
- 114. The puppies' infection could be best described as which type?
- a. Direct
- b. Indirect
- c. Transmammary
- d. Transplacental
- 115. If the rabbit was infected with hookworms what would be the term for this type of host?
- a. Paratenic
- b. Pest
- c. Atypical
- d. Infectious
- 116. Which of these is the scientific name for hookworm?
- a. Ancylostoma caninum
- b. Dipylidium caninum
- c. Toxocara canis
- d. None of the above
- 117. James accidentally spilled bleach. In order to know the correct clean up procedure to take, he must check the MSDS. The acronym MSDS stands for:
- a. Material Safety from Disease Sheet
- b. Material Safety Data Sheet
- c. Mechanical Safety Destruction Sheets
- d. Mechanical Safety Data Sheet
- 118. A member of OSHA is doing a walkthrough of a veterinary clinic. The Occupational Safety and Health Administration is housed in
- a. The Department of Health
- b. The Department of Finance
- c. The Department of Security
- d. The Department of Labor
- 119. Adam has just assisted in restraining a Lhasa Apso for am IM injection. The RVT that gave the injection must now dispose of the needle and syringe. Where must all needles and syringes be disposed of?
- a. A bottle
- b. A dumpster
- c. A trashcan
- d. A sharps container
- 120. When dealing with radioactive equipment, you should always wear:
- a. lead gloves

b. lead apron c. a dosimeter d. all of the above
121. If working in a veterinary clinic, you understand that the guidelines set forth by the Occupational Safety and Health Administration are based on the principle of
a. The Right to Know b. The Basis of Knowledge c. The Determination of Knowledge d. The Right of the Knowledge of the Law
122. People who work with animals on a daily basis are faced with potentially dangerous situations.
a. Never b. Sometimes c. Always d. Rarely
123. Which of the following is NOT a hazard that you would face while working in a veterinary clinic?
a. Physical hazards b. Chemical hazards c. Biological hazards d. Psychological hazards
124. Which of these is NOT a disease-causing agent for zoonotic diseases?
a. Fungi b. Biologics c. Viruses d. Parasites
125. Ben may have been exposed to a bacterial zoonotic disease. Which of the following is NOT a zoonotic disease caused by bacteria?
a. Toxoplasmosis b. Leptospirosis c. Anthrax d. Tuberculosis
126. Which drug schedule has no current accepted medical use?
a. Schedule I

127. Cole has been asked to clean the front waiting area of the clinic. With regard to the types of sanitation, which of these best describes "cleaning"?

b. Schedule IIc. Schedule IIId. Schedule IV

- a. Physically removing all visible signs of dirt and organic matter such as feces, hair, etc.
- b. Destroying most microorganisms on nonliving things by physical or chemical means.
- c. Destroying all microorganisms and viruses on an object using chemicals and/or heat.
- d. Solutions that destroy microorganisms or inhibit their growth on living tissue.
- 128. When sanitizing, filtration is best described as:
- a. Using a chemical with a mop or sponge.
- b. Soaking items in a chemical disinfectant until they are used.
- c. Incinerating an object or exposing them to a flame.
- d. Removing particles from the air using a physical barrier.
- 129. Dana has been asked to dispense a schedule drug as a pain killer for an animal that has had a hip replacement. According to the Controlled Substance Act, she must:
- a. understand the schedules that drugs are placed in and why.
- b. have an authorized person unlock the locked cabinet where the drugs are stored.
- c. ensure that the name and amount of drug used is recorded in the daily log.
- d. All of the above.
- 130. Sugar, a small dog, has come into a veterinary clinic with sarcoptic mange. To prevent the spread of this and other zoonotic diseases, you need to:
- a. dispose of waste in a proper manner
- b. isolate infected animals
- c. wash hands often
- d. all of the above
- 131. Evan is creating a poster over biohazards for his Veterinary Technology class. Which of these is NOT an example of a biohazard and therefore should not be included in his poster?
- a. Needles
- b. Materials soaked with bodily fluids
- c. Bandage material
- d. None of the above
- 132. Fran is doing research on pathogens. A pathogen is:
- a. A microorganism that produces disease.
- b. Disease that can be transmitted between animals and humans.
- c. Precautions taken to prevent contamination of a surgical wound.
- d. Refers to the back.
- 133. A veterinarian has diagnosed an animal with typhus, which is a zoonotic disease. Zoonotic means:
- a. Disease that can be transmitted between animals and humans.
- b. Precautions taken to prevent contamination of a surgical wound.
- c. Refers to the back.
- d. A device that measures the amount of radiation someone is exposed to when performing radiology.
- 134. Proper PPE sometimes includes a dosimeter. This is:

a. Lateral
141. When a patient is having an ovariohysterectomy performed, the patient is placed in recumbency.
d. Border Collie
b. Dachshund c. Shih Tzu
a. Labrador Retriever
140. Which of the following would be considered a brachycephalic breed?
d. Monthly
c. Bi-weekly
b. Weekly
a. Daily
139. The operating room should be cleaned
d. Stainless steel
c. Lead
b. Copper
a. Aluminum
138. Most surgical instruments are manufactured from
d. on an organ.
c. a wound that is on the extremities of an animal
b. deep laceration
a. Near the surface, also called external.
137. An animal has a superficial wound. Superficial means:
d. a chemical agent that allows that growth of microorganisms on inanimate objects
b. a washcloth and hot waterc. something that contaminates surfaces
a. A chemical agent that kills, or inhibits the growth of microorganisms on inanimate objects.
2.50. Thine cleaning an exam room, ribby about a distinct and ris.
136. While cleaning an exam room, Abby uses a disinfectant. This is:
c. Swabbing for a bacteria culture d. A chemical agent that kills of prevents to growth of microorganisms
b. Cleaning surfaces with bleach
a. Precautions taken to prevent contamination of a surgical wound.
135. Aseptic technique is
d. Something that covers your face while working with animals.
c. A device that keeps animals from biting you.
b. Lead gloves
radiology.
a. A device that measures the amount of radiation someone is exposed to when performing

b. Dorsal c. Ventral d. Sternal
142. After autoclaving a surgical pack, you notice that the autoclave tape looks the same as it did when you placed it in the autoclave. What should you do now?
 a. Place the pack with the others – there is no reason to be concerned about the sterility of the instruments. b. Open the pack to check the instruments for sterility. If they look clean, they can be used. c. Just hide the pack so you do not get in trouble for it not being sterilized. d. Place the pack to the side and do not allow it to be used because the sterility of the pack is questionable.
143. A person who cares for equine feet including trimming and shoeing is called a/an
a. equestrian b. farrier c. hobble d. quittor
144. The amount of food provided to livestock in a 24-hour period is its
a. graze b. ration c. roughage d. silage
145. Examination by tapping the surface to determine density of a body area is called
a. palpationb. ausculatationc. percussiond. tapping
146. The percentage of RBCs in blood is called a
a. hematocrit b. PCV c. crit d. all of the above
147. A machine that spins samples very rapidly to separate elements based on weight is a
a. counter b. centrifuge c. refractometer

148. A set of signs that occur together is called a/an:

a. sign b. symptom

d. cannula

c. endemic d. syndrome 149. The study of disease causes is a. etiology b. toxicology c. biology d. pathology 150. You are doing maintenance on the anesthesia machine. You happen to notice that the granules in the canister are starting to turn purple. What does this usually indicate? a. The granules are more than 90 days old. b. The granules have lost the ability to absorb anesthetic gases. c. The granules should be turned over in the canister – they will regain d. The granules have lost the ability to absorb carbon dioxide. 151. A normal capillary refill time (CRT) is: a. 5+ seconds b. 4-5 seconds c. 3-4 seconds d. 1-2 seconds 152. Six 12 ounce puppies need deworming medication. If the dose is 1ml/lb, how many total ml do you need in order to deworm all of the puppies? a. 4.5 mls b. 5.7 mls c. 6.9 mls d. 7.8 mls 153. The veterinarian requests 600 cc of a solution. The instrument used to measure only has marks for mls. You know the correct equivalent of 600 cc in mls because: a. cc and mls are equivalent. b. A cc is twice the amount of a ml c. A ml is twice the amount of a cc d. A ml is half the amount of a cc 154. Six blood pressure readings are 115, 120, 123, 121, 121, and 112 mm Hg. What is the average value? a. 104 b. 113 c. 119 d. 124 155. ¼ of a L is equivalent to: a. 250 ml b. 500 ml

c. 750 ml

- d. 1000 ml
- 156. What are the two factors that determine or influence an animal's disposition?
- a. genetic make-up and environmental situation
- b. environmental situation and nutrition
- c. nutrition and housing
- d. housing and genetic make-up
- 157. If you had a horse that had a 102.4°F, would you be concerned?
- a. No, it is completely normal.
- b. Yes, it is above normal.
- c. No, it is a little below normal.
- d. Yes, it is extremely below normal.
- 158. Your chicken has a heart rate of 275 beats per minute. Is that something to be worried about?
- a. Yes, that is above normal.
- b. Yes, that is below normal.
- c. No, that is normal.
- d. No, that is below normal.
- 159. Which of the following hormones is the most primary hormone produced by the testes?
- a. Estrogen
- b. Testosterone
- c. Progesterone
- d. Oxytocin
- 160. Which of the following is not a primary action of testosterone?
- a. Anabolic growth
- b. Promotes spermatogenesis
- c. Promotes secretions from accessory glands
- d. None of these
- 161. What are the anatomical differences between the oviducts of most mammals and the oviducts of poultry?
- a. Mammals have one oviduct.
- b. Mammals do not have oviducts.
- c. Poultry do not have oviducts.
- d. Poultry have one oviduct.
- 162. What is the main difference between the testes of mammals and the testes of poultry?
- a. Mammals have one testicle.
- b. The testes of poultry do not descend out of the abdominal cavity.
- c. Poultry have one testicle.
- d. The testes of mammals do not descend out of the abdominal cavity.
- 163. What is the purpose of the infundibulum?

- a. To transport the egg from the ovary to the oviduct.
- b. To expel the fetus.
- c. To contract during labor.
- d. To give nourishment to the fetus.
- 164. Which of the following hormones are the primary hormones produced by the ovaries?
- a. Estrogen and testosterone.
- b. Testosterone and oxytocin.
- c. Testosterone and progesterone.
- d. Estrogen and progesterone.
- 165. What are the primary functions of the hormones that the ovaries produce?
- a. Sexual behavior and maintenance of pregnancy.
- b. To give a deeper voice and more defined muscles.
- c. To maintain weight and pregnancy.
- d. To give secondary male characteristics and maintain weight gain.

166. Which of the following is not a function of the cervix?

- a. Connects the vagina to the uterus.
- b. Serves as a passageway for semen during copulation.
- c. Serves as a barrier for pathogens and prevents foreign material from entering the uterus.
- d. None of the above.

167. Which of the following is NOT a function of the uterus?

- a. Provides nourishment for the fetus.
- b. Is the receptacle for the penis during copulation.
- c. Contracts to expel the fetus during parturition.
- d. Incubates the fetus during pregnancy.

168. Which of the following is NOT a function of the epididymis?

- a. Site of maturation for sperm.
- b. Site of transportation for sperm.
- c. Site of decomposition for sperm.
- d. Site of storage for sperm.

169. What is a cryptorchid?

- a. Sterile female calf born twin to a male calf.
- b. Condition in which one or both testicles remain in the body cavity.
- c. Process by which sperm are produced by the male.
- d. Causes destruction of the cotyledons of the uterus.

170. What is a freemartin?

- a. Sterile female calf born twin to a male calf.
- b. Process by which ova are produced by the female.
- c. Respiratory viral disease that causes infertility.
- d. Condition in which one or both testicles remain the body cavity.

171. What does "Bang's" disease cause?

- a. Abortions typically in the second half of pregnancy.
- b. A sterile female calf born twin to a male calf.
- c. A decrease in the production of sperm in the male.
- d. Respiratory viral disease that causes infertility.

172. What does IBR stand for?

- a. Infectious Born Respiration
- b. Indefinitely Bad Respiration
- c. Infectious Bovine Rhinotracheitis
- d. Infectious Bovine Respiration

173. What is IBR?

- a. Sterile female calf born twin to a male calf.
- b. Condition in which one or both testicles remain in the body cavity.

- c. Causes destruction of the cotyledons of the uterus. d. Viral disease of the respiratory tract that can cause abortion. 174. What is oogenesis? a. Process by which sperm are produced by the male. b. Condition in which one or both testicles remain in the body cavity. c. Process by which ova are produced by the female. d. Causes destruction of the cotyledons of the uterus. 175. What is spermatogenesis? a. Process by which sperm are produced by the male. b. Condition in which one or both testicles remain in the body cavity. c. Process by which ova are produced by the female. d. Causes destruction of the cotyledons of the uterus. 176. The term that means of, or relating to dogs: a. Feline b. Bovine c. Canine d. Galline 177. The term that means of, or relating to cats: a. Feline
 - b. Bovine
 - c. Canine
 - d. Galline
 - 178. The term that means of, or relating to cattle:
 - a. Feline
 - b. Bovine
 - c. Canine
 - d. Galline
 - 179. The term that means of, or relating to horses:
 - a. Equine
 - b. Galline
 - c. Bovine
 - d. Ovine
 - 180. The term that means of, or relating to swine:
 - a. Equine
 - b. Canine
 - c. Galline
 - d. Porcine
 - 181. The term that means of, or relating to sheep:

a. Equine b. Galline c. Bovine d. Ovine
182. The term that means of, or relating to poultry:
a. Equine b. Feline c. Porcine d. Galline
183. A sexually mature male of the bovine species.
a. Heifer b. Steer c. Cow d. Bull
184. A female that has produced a calf.
a. Heifer b. Steer c. Cow d. Bull
185. A female that has not produced a calf.
a. Heifer b. Steer c. Cow d. Bull
186. A sexually mature male of the equine species.
a. Colt b. Foal c. Stud d. Mare
187. A female of the equine species that is four years of age or older.
a. Colt b. Foal c. Stud d. Mare
188. An immature male of the equine species.
a. Colt b. Foal c. Stallion

d. Mare	
189. The act of giving birth in horses.	
a. Farrowing b. Foaling c. Whelping d. Laying	
190. A mature female of the porcine species that has produced young. a. Hen b. Sow c. Gilt d. Ewe	
191. An immature female of the porcine species. a. Hen b. Sow c. Gilt d. Ewe	
192. A mature female of the galline species. a. Hen b. Sow c. Gilt d. Ewe	
193. A newborn chicken.	
a. Chick b. Pullet c. Cockerel d. Broiler	
194. A sexually mature male of the ovine species.	
a. Rooster b. Bull c. Barrow d. Ram	
195. A sexually mature female of the ovine species.	
a. Ewe b. Gilt c. Hen d. Filly	
196. All telephone calls should be answered by the	ring.
a. first b. third c. fifth	

d. seventh
197. Cat litter pans and gardening are the most common sources for which protozoan?
a. Toxoplasma b. Giardia c. Coccidia d. Ancyloplasma
198. Formalin is most commonly used for
a. Disinfectingb. Flea preventionc. Copy machine tonerd. Tissue biopsy
199. For safety, two people are required to lift anything weighing more than lb.
a. 10 b. 20 c. 30 d. 40
200. Which of the following is a zoonotic disease?
a. Ringworm b. Cat Scratch Fever c. Both A and B d. None of the above
201. The five types of white blood cells are:
a. Eosinophil, basophil, neutrophil, lymphocyte, monocyteb. Thrombocyte, monocyte, neutrophil, lymphocyte, eosinophilc. Neutrophil, erythrophil, leukocyte, basophil, eosinophild. Neutrophil, basophil, eosinophil, granulocytes, acanthocyte
202. What parasite transmits Lyme disease?
a. Dirofilaria immitis b. Heartworm c. Lice d. Tick
203. To remove a tick you should:
a. Use a match to burn the tick offb. Cut the tick off with a knifec. Pour alcohol on the tick, then pull it offd. Use tweezers to grasp the head and pull straight out
204. One disease that is transmitted by the tick is:

- a. Rocky Mountain Spotted Fever
- b. Toxoplasmosis
- c. Salmonella
- d. Ringworm

205. The clinical signs of heartworm are:

- a. vomiting, deep cough, anemia
- b. anemia, deep cough, irregular heart beat
- c. deep cough, irregular heart beat, exercise intolerance
- d. irregular heart beat, anemia, exercise intolerance

206. A veterinary assistant must inventory all supplies each month. She counts the following number of thermometers: 4, 12, 7, 23, and 9. What is the total number of thermometers?

- a. 45 thermometers
- b. 50 thermometers
- c. 55 thermometers
- d. 60 thermometers

207. A veterinary assistant counts the exam gloves in each room and determines there are 338, 191, 87, 420, 206, and 76 gloves. What is the total number of gloves?

- a. 1118 gloves
- b. 1218 gloves
- c. 1318 gloves
- d. 1418 gloves

208. A vet tech purchases a new uniform. She spends \$31 for the top, \$28 for the pants, \$56 for shoes, \$7 for socks and \$4 for a name pin. What was her total cost?

- a. \$126
- b. \$136
- c. \$146
- d. \$156

209. A veterinarian in a critical care unit determines that one calf was given the following intravenous (IV) solutions in a 24 hour period: 745 milliliters (mL) of 0.9% normal saline, 420 mL of lactated ringers, 1,250 mL of 5% dextrose, and 15

mL of an antibiotic solution. How many total milliliters of IV solution did the patient receive?

- a. 1430 mL
- b. 2430 mL
- c. 3430 mL
- d. 4430 mL

210. A veterinary technician inventories the number of medication containers. She finds there are 1,137 safety-lock containers, 963 easy-open containers, 413 15mL bottles, 1,265 30mL bottles, and 258 ointment containers. What is the total number of medication containers?

- a. 3000 containers
- b. 4000 containers
- c. 4036 containers

d. 1457 containers

211. A veterinary technician notes that a dog's leukocyte (white blood cell) count before surgery was 18,645. Two days after the surgery, the patient had a

leukocyte count of 8,968. What is the difference in the leukocyte counts?

- a. 6977
- b. 9677
- c. 1845
- d. 9577

212. A veterinarian is paid \$53,291 per year. After a raise, her yearly salary increases to \$56,509. What was the amount of her raise?

- a. \$2192
- b. \$3901
- c. \$1450
- d. \$3218

213. A veterinary technician is calculating the bill for hospital care for a kidney transplant cat. The bill for medical services and care was \$2,685. The owners

paid \$1,389 when they picked up the cat. A few weeks later they paid another \$497. How much do they still owe?

- a. \$799
- b. \$899
- c. \$999
- d. \$1500

214. A cow weighed 1,743 pounds prior to calving. The calf weighed 97 pounds and the placenta and amniotic fluid weighed 189 pounds. How much did the cow weigh after calving?

- a. 1557 pounds
- b. 1457 pounds
- c. 1357 pounds
- d. 1257 pounds

215. A steer weighed 1,145 pounds before harvest. One half of the carcass with fore quarters weighed 393 pounds and one half of the carcass with rear quarters weighed 341 pounds. How much of the steer could not be consumed?

- a. 408 pounds
- b. 409 pounds
- c. 410 pounds
- d. 411 pounds

216. A technician is using a microscope to examine a specimen. If the eyepiece on the microscope has a power of 15x (x means times; a power of 15x magnifies an object 15 times) and the objective has a power of 100x, what is the total number of times she is magnifying the specimen? Hint: to find total magnification on a microscope, multiply the power of the eyepiece times the power of the objective.

- a. 1500x
- b. 2000x

c. 2500x d. 3000x
217. An animal shelter worker is preparing formula for orphaned puppies. There are 9 puppies and each needs 2 ounces of formula. How many ounces of formula must be prepared?
a. 16 oz b. 18 oz c. 20 oz d. 22 oz
218. A secretary maintains the accounts and writes the paychecks for a veterinary facility. Eight vet techs earn \$13 per hour. If everyone works 40 hours per week, what is the total amount of money needed for the payroll each week?
a. \$3160 b. \$4060 c. \$4160 d. \$5060
219. The lab receives a prescription order from the veterinarian. He wants the patient to take 40 milligrams (mg) of amoxicillin four times a day for 25 days. The lab has 20 mg amoxicillin tablets. How many tablets should the vet tech give to the client for the 25-day period?
a. 150 tablets b. 200 tablets c. 250 tablets d. 300 tablets
220. A microbiologist is staining bacterial slides. He uses a bottle of Gram stain that contains 144 milliliters (mL) of solution. If each slide requires 18 mL of the solution, how many slides can he stain with one bottle of solution?
a. 2 slides b. 4 slides c. 6 slides d. 8 slides
221. A zookeeper gives a pot-bellied pig 1200 milligrams (mg) of Streptomycin in a 24-hour period. How many mg does he give the pig per dose if he gives the medication every 6 hours (q6h)?
a. 100 mg b. 200 mg c. 300 mg d. 400 mg

222. A veterinarian takes blood samples from cows for brucellosis testing. One morning he fills 16

vacutainers (vacuum tubes) with 10 cubic centimeters (cc) of blood, 31 with 9.5 cc of blood, 28 with 7 cc of blood, and 15 with 8.5 cc of blood. How many cc of blood did he obtain from all the cows?

a. 778 ccb. 780 cc

c. 782 cc

d. 784 cc

223. A veterinary technician is counting leukocytes (white blood cells). She counts four areas on the hemocytometer counting chamber, adds the four numbers together and then multiplies by 50 to obtain the correct leukocyte count. If the counts are 23, 27, 28 and 34 what is the correct leukocyte count?

- a. 5600 leukocytes
- b. 5700 leukocytes
- c. 5800 leukocytes
- d. 5900 leukocytes

224. An animal health technician is stocking a cabinet with flea control products. He stocks three cases of spray containing 24 cans per case, 13 cases of shampoo with 12 bottles per case, 5 boxes of foam with 10 cans per case, and 6 cases of powder with 8 boxes per case. Three days later he calculates that 35 cans of spray, 18 bottles of shampoo, 5 cans of foam and 21 bottles of powder have been sold. How

many total items of flea killing preparations are left in the cabinet?

- a. 245 preparations
- b. 247 preparations
- c. 249 preparations
- d. 251 preparations

225. A vet tech gives a dog ½ ounces (oz) of cough medicine at 6 PM and ¼ oz of cough medicine at 10 PM. What is the total amount of cough medicine received?

- a. ½ oz
- b. ½ oz
- c. 3/4 oz
- d. 1 oz

226. A vet tech is developing X rays. He follows the time chart recommended for the film he is using. What is the total time required to complete the developing process? Developing Process Time Required

- Developer 2 1/4 minutes Rinse 3/4 minute
- Fix solution 3 1/2 minutes Final wash 19 minutes
- a. 23 minutes
- b. 23 1/4 minutes
- c. 23 ½ minutes
- d. 23 3/4 minutes

227. A vet tech uses ½ oz, ¾ oz, and 5/8 oz of solution to perform three urinary analysis tests. How much total solution does she use?

- a. 1 oz
- b. 1 ½ oz
- c. 1 ³/₄ oz
- d. 17/8 oz

228. A vet tech is in charge of the construction of a new X-ray development unit. She knows that to prevent radiation the walls must be at least 2 5/8 inches (") thick if gypsum sheet rock is used or 1/16" thick if sheets of lead are embedded in the wall to prevent the passage of radiation. What is the difference of thickness in the two walls?
a. 2 ½ inches b. 2 9/16 inches c. 2 ¾ inches d. 3 inches
229. A microbiologist notes that the average length of a bacterium is 1/1000 micrometer (mcm). Viruses range in size from 1/2500 to 1500mcm. How much longer is a bacterium than the smallest virus in mcm?
a. 3/5000 mcm b. 4/5000 mcm c. 3/500 mcm d. 7/5000 mcm
230. A veterinary pharmaceutical company technician uses a 480-milliliter (mL) flask of rabies vaccine solution to fill individual vials. If each vial holds 1/30 of the volume of the flask, how many mL of vaccine are in each vial?
a. 12 mL b. 14 mL c. 16 mL d. 18 mL
231. An animal that is comfortable with a halter on its head and that responds to the commands of the person who is leading it is said to be
a. halter responsive b. show ready c. halter broken d. domesticated
232. Identification tags are usually placed in the of cattle.
a. teeth b. nostrils c. hooves d. ears
233 Giving birth in sheep is known as
a. farrowing b. ramming c. lambing d. kidding
234. What is drenching? a. giving a liquid medication orally b. milking a dairy goat too often

d. washing a sheep thoroughly
235. Both sheep and goats have hooves. a. cloven b. two toe-nails c. split d. all of the above
236. Poultry rely on a, a strong muscular organ that may contain grit, to grind their food.
a. gaggle b. gizzard c. gosling d. gander
237. <i>In vivo</i> vaccination involves injecting the vaccine into the
a. newborn chick b. hen's uterus c. pullet d. embryo in the egg
238. Which of the following is NOT a method of disposing of dead birds in a poultry production facility?
a. incineration b. burying c. recycling d. composting
239. Which of the following animals is NOT a cecal fermenter?
a. Horse b. Guinea Pig c. Pig d. Rabbit
240. Which of the following is NOT one of the nutrients that should be included in pet food? a. Proteins b. Oils c. Fats d. Water
You are feeding your dog Woof-Woof Dog Food. It costs \$14.95 for a 35-pound bag, You are feeding a very large dog 3.5 cups of food per day, and each cup weighs 3.5 ounces.
241. Using the above scenario, what is the cost per pound?
a. \$2.34 per pound b. \$0.23 per pound c. \$0.50 per pound

- d. \$4.98 per pound 242. Using the above scenario, how many ounces are there in a bag? a. 560 ounces b. 122.5 ounces c. 480 ounces d. 350 ounces 243. Using the above scenario, what is the cost per year? a. \$97.18 per year b. \$4,471.25 per year c. \$179.40 per year d. \$134.14 per year 244. Which of the following is the first of the five steps of the digestive process? a. Mechanical b. Chemical c. Peristalsis d. Absorption 245. Which of the following are the "ABC's" of cardiopulmonary resuscitation? a. Airway, Breathing, Compression b. Always Breath Continuously c. Airway, Breathing, Circulation d. Airway, Bleeding, Compression 246. Which of the following is NOT a warning sign that your dog or cat may be inclined to bite? a. Assuming submissive posture b. Crouching with tail between legs c. Ears held back, tail wagging quickly d. Snarling, with fur on the back raised 247. What is prevention for anal sac swelling? a. let your dog scoot b. have veterinarian check anal glands
- 248. With your veterinarian's permission, what medication can you give your dog if they have an allergic reaction?
- a. Pepto-Bismol

c. use an enema on a weekly basis d. let your dog lick their anal glands

- b. Advil
- c. Benadryl
- d. Frontline

249. Lyme Disease is a disease caused by a spiral-shaped bacterium, Borrelia burgdorferi. Which of the following can become infected?

- a. Dogs & cats
- b. Horses & cattle
- c. Birds & wild animals
- d. All the above

250. In the last few hours I have noticed that my dog has been drooling excessively, especially since she never really drools. What could cause this?

- a. oral ingestion of insecticides
- b. dental disease
- c. anxiety & nausea
- d. All the above

251. Dogs and humans are susceptible to a variety of water-borne parasites. How can dogs become infected?

- a. ingesting aquatic species
- b. swimming
- c. drinking pond water
- d. all the above

252. A dog that licks his feet, rubs his face, or scratches behind his elbows may be showing signs of:

- a. Allergy
- b. Fatigue
- c. Hunger
- d. Boredom

253. How long is a dog in estrus?

- a. between 4 21 days with a mean of 9 days.
- b. exactly 6 days.
- c. between 7 28 days with a mean of 11 days.
- d. exactly 15 days

254. Rascal, a 2 year old dog has a foul odor. What could be the cause?

- a. Any brownish material in his ears. He may have an ear infection.
- b. He has tartar on his teeth or very red gums. His teeth need attention.
- c. His skin is dry and has bumps.
- d. All the above

255. Chipped bones, bowed tendons and other soft tissue injuries can cause what condition in horses?

- a. broken bones
- b. lameness
- c. even gaits
- d. all the above

a2538 inches b1525 inches c385 inches d. none of the above
257. Which breeds of dogs are less likely to cause human allergies?
a. Spaniels b. Chows c. Schnauzers d. Heelers
258. In horses, when a fixed object is grabbed with the incisor teeth and air is drawn in repetitively through the mouth, is what:
a. boredom b. need of certain trace minerals c. cribbing d. all the above
259. This term refers to a collection of pus (dead white blood cells) that has accumulated in a cavity formed by the tissue due to an infection or other foreign material.
a. Antigen b. Bruise c.Abscess d. Slab
260.A bacteria or virus that causes clinical disease
a. Founder b. Strangles c. Pathogen d. Antigen
261. The soft "v" shaped tissue in the center of the bottom of the horses hoof
a. Sole b. White line c. Wall d. Frog
262.When breathing stops
a. Apnea b. Tachypnea c. Dyspnea d. Detomidine

263. The study of disease causes

256. How long, on average, will a mature horse's hoof grow in a month?

a. Pathology b. Etiology c. Anatomy d. Caudal
264. The only medical term for lying down is
a. Recumbent b. Adduction c. Flexion d. Abduction
265.The Occupational Safety and Health Act ofestablished the Occupational Safety and Health Administration in the Department of Labor.
a. 1969 b. 1970 c. 1971 d. 1972
266.Sheep have chromosomes.
a. 24 b. 34 c. 44 d. 54
267.Goats have chromosomes.
a. 50 b. 60 c. 64 d. 70
268. The normal pulse (bpm) for a pig is
a. 60 bpm b. 65 bpm c. 70 bpm d. 75bpm
269.A sheep has a temperature of 102.5°F. This is:
a. Too low b. Normal c. Too high
270 is essential for organ structure, nutrient transport and energy utilization.
a. Calcium b. Protein c. Sulfur d. Phosphorus

271.Grass tetany is a result of
a. Nitrogen overloadb. Nitrogen deficiencyc. Magnesium deficiencyd. Phosphorous deficiency
272. Anthrax is adisease of livestock.
a. Fungal b. Parasitic c. Bacterial d. Zoonotic
273.Erythrocytes are microscopic cells also called
a. Plateletsb. White blood cellsc. Red blood cellsd. Plasma
274. An example of a fungus is
a. Pink Eye b. Ringworm c. Sarcoptes d. Tuberculosis
275. What is the name of the set of guidelines to protect employees?
a. Employee Code of Ethics b. Employees Right to Know c. Hazard Communication Standard d. OSHA 276. All of the following are examples of hazards, except
a. Chemical b. Mental c. Physical d. Zoonotic
277. All of the following are examples of safety equipment, except
a. Back brace b. Lead apron c. Lead gloves d. Lead shoes
278. An MSDS must contain sections. a. 7 b. 8

c. 9

d. 10
279. OSHA was created in a. 1950 b. 1960 c. 1970 d. 1980
280. Which of the following is most important to schedule first when making appointments? a. Customer Preference b. Annual Appointments c. Emergencies d. Heartworm Checks
281. Which of the following is a sign of someone using non-verbal communication to express joy? a. Smiling b. Hand Shake c. Frown d. Crossed Arms
282. What time of the day does the doctor typically do surgeries? a. Early Morning b. Late Afternoon c. Evening d. Lunch
283. Which of the following situations would be considered an emergency? a. Annual Check-Up b. Runny Stool c. Flea Prevention d. Urinary Blockage
284. Which of the following is NOT included on a cage card? a. Pet's Name b. Pet Owner's Name c. Time of day they need to go outside d. Procedure
285. A good rule to follow when restraining animals for veterinary care is:
a. Apply the maximum amount of restraint possible to ensure the safety of all involved.
b. Apply the minimum effective amount of restraint that will keep the animal and personnel safe.
c. Always apply the same amount of restraint: that which is usually tolerated by a member of the species being handled.
d. Never use ropes when restraining animals.

Veterinary Technology Question Bank - Key

- 1. The four things that ONLY a veterinarian may do are:
- a. Prescribe medications
- b. Perform surgery
- c. Provide a diagnosis and a prognosis

d. All of the above

- 2. The capillary refill time (CRT) for Buddy is 1 second. In the patient chart, the CVA records that the CRT for Buddy is:
- a. Abnormally low

b. Normal

- c. Abnormally high
- d. Not enough information to record
- 3. When evaluating the integumentary system of Rowdy, a Palomino, the CVA would evaluate all of the following areas EXCEPT:
- a. Skin and hide

b. Mucous membranes

- c. Hooves
- d. Hair
- 4. When an animal is presented with an abnormality cranial to a certain body structure, the word cranial means:

a. Toward the head

- b. Toward the tail
- c. Toward the nose
- d. Closest to the midline
- 5. The feline's first line of defense is:
- a. Its teeth

b. Its claws

- c. Its tail
- d. Its hind legs
- 6. You are restraining a Besenji dog for cephalic venipuncture. When the person performing the injection has placed the needle and is ready to inject the drug, he says to you, "Okay." He is most likely asking you to:
- a. Verbally indicate that he has made contact with the vein

b. Lift the thumb that is occluding the vein

- c. Release the animal from restraint
- d. Roll the vein in the opposite direction
- 7. Use the following scenario to answer the next two questions. An otherwise healthy veterinary technician, Anna, is bitten by a 2-year-old mixed-breed dog, "Tow Tow," while restraining him for a

pedicure. The bite does not cause severe tissue damage, but the canine teeth penetrate her skin and she does bleed. Tow Tow is current on all of his vaccinations including rabies. He lives primarily in the backyard of his owner's suburban home. What is the best, first action Anna should take following the bite?

- a. Ignore the bite until she has time to wash it, even though this may not be for a few hours. Once there is time, also inform the veterinarian or office manager.
- b. Wash the wound immediately with soap and water, then with povidone-iodine, and follow with a thorough irrigation with water, then inform the veterinarian or office manager.
- c. Wait until she gets home and clean the wound, without notifying the veterinarian because she fears she will be reprimanded.
- d. Tell a coworker about it, but take no more action regarding the incident.
- 8. Anemia is:
- a. The study of parasites.
- b. A single celled animal.
- c. A decrease in the number of red blood cells.
- d. A disease that can be transmitted from animals to humans.
- 9. Pericardium is:
- a. The muscular layer of the heart wall.
- b. The fibrous sac that encloses the heart.
- c. A thin layer that lines the surface of the heart.
- d. A thin layer that lines the inside of the heart.
- 10. A compound fracture is one in which:
- a. The break is along the axis of a bone.
- b. The bone shatters in the many pieces.
- c. The break is on one side of the bone.
- d. The bone breaks through the skin.
- 11. An orchiectomy:
- a. Removal of the ovaries and uterus.
- b. Removal of the testes.
- c. An incision into the thorax.
- d. Removal of a tumor.
- 12. Microfilaria are:

a. The larval stage of the heartworm.

- b. The segment of the tapeworm containing the male and female reproductive organs.
- c. Microscopic single celled organisms.
- d. None of the above.
- 13. The abomasum is:
- a. The first compartment of the ruminant stomach.
- b. The second compartment of the ruminant stomach.

- c. The third compartment of the ruminant stomach.
- d. The fourth compartment of the ruminant stomach.
- 14. The function of the cecum is to:
- a. Produce bile.
- b. Aide in the digestion of fibrous materials.
- c. Produce insulin.
- d. None of the above.
- 15. Carbohydrates contain or include:
- a. Amino Acids

b. Simple Sugars

- c. Lipids
- d. None of the above
- 16. Which organization governs the use, storage and disposal of controlled substances?
- a. EPA
- b. DEA
- c. OSHA
- d. None of the above
- 17. Which zoonotic disease is fatal in humans?
- a. Corona
- b. Rabies
- c. Parvovirus
- d. Scabies
- 18. Diseases that can be transmitted to humans are known as:
- a. Contagious
- b. Benign
- c. Malignant
- d. Zoonotic
- 19. Which of the following diseases is not a disease that affects dogs?
- a. Rabies
- b. Distemper
- c. Black Leg
- d. Hepatitis
- 20. Which of the following substances is not considered a bio-hazardous substance?
- a. Scalpel blade
- b. Syringe
- c. Microscope Slide
- d. Needle

21. Which of the following bedding materials is most commonly used in the small animal clinic?
a. Pine Shavings b. Newspaper c. Blankets and Towels d. Straw
22. Which of the following needles has the smallest bore?
a. 16 gauge b. 20 gauge c. 21 gauge d. 25 gauge
23. Which of the following needles would most commonly be used for canine vaccinations?
a. 16 gauge b. 20 gauge c. 21 gauge d. 25 gauge
24. Which of the following acronyms is used when administering medication twice a day?
a. TID b. QID c. BID d. SID
25. Which of the following animals would be classified as a Hound Breed?
a. Chihuahua b. Dachshund c. Cocker Spaniel d. French Bulldog
26. Which of the following cattle breeds would be considered a dairy breed?
a. Shorthorn b. Polled Hereford c. Brown Swiss d. Gelbvieh
27. Which of the following hazards is associated with radiography?
a. Hearing Loss b. Burns or scalds c. Cancer d. None of the above.

28. Determine the number of pounds in 10.5 kilograms.

- b. 24.6 c. 21.9 **d. 23.1**
- 29. Which of the following parasites is considered an endoparasite?
- a. Fleas
- b. Ticks

c. Hookworms

- d. Mites
- 30. Dystocia can be defined as:
- a. The carrying of an embryo or fetus.
- b. The process of giving birth.

c. Abnormal or difficult birth.

- d. A birth in which the offspring enters the birth canal hind end first.
- 31. Referring to the lower or bottom view:
- a. Dorsal

b. Ventral

- c. Cranial
- d. Anterior
- 32. Which of the following breeds of sheep is considered a fine wool breed?
- a. Southdown
- b. Suffolk
- c. Hampshire

d. Rambouillet

- 33. Kyra, a 7-year-old, F/S mixed breed dog (107 lb) is presented to the clinic with signs of increases vocalization and urine leaking. She does not appear to be PU/PD (increased urination/increased drinking) or having accidents due to lack of training. She usually leaks urine after she has lain down (her bed is damp). The U/A (urinalysis) is WNL as the PE. Scout radiographs of the urinary bladder are unremarkable. Based on her history and pattern of urine leaking, the vet determines that she might have estrogen responsiveness incontinence. She is prescribed DES (diethylstilbestrol) at a dosage of 1 mg po sid for 3 days, followed by maintenance therapy of 1 mg po per week. DES comes in 1-mg and 5-mg tablets. How many tablets does this dog receive for the first three days?
- a. 5
- b. 4
- <u>c. 3</u>
- d. 2
- 34. Indicate the tablets/capsules prescribed for the following order: Rx: Metronidazole tablets 250 mg Sig: 1 tablet, P.O., BID x 10 days
- a. 10 tablets

b. 20 tablets

- c. 30 tablets
- d. 40 tablets
- 35. You regularly order six 10-ml vials per month of a drug that has a concentration of 50 mg/ml. Now that same drug is only available in 20-ml vials of 10 mg/ml. How many vials should you order this month?
- a. 25 vials
- b. 20 vials

c. 15 vials

- d. 10 vials
- 36. The order is for 500 mg of amoxicillin, and tablets on hand are 250 mg. How many tablets will be administered?
- a. 1 tablet

b. 2 tablets

- c. 5 tablets
- d. 6 tablets
- 37. Indicate the minimum amount of tablets/capsules prescribed for the following order: Rx: Ascriptin tablets Sig: 1 tab P.O., BID x 14 days then 1 tab BID prn

a. 28 tablets

- b. 24 tablets
- c. 20 tablets
- d. 16 tablets
- 38. A 13-year old M/N domestic short hair (DSH) named Buttons has a bite wound in the right side of the mandible. The owner does not know when the cat got the bite wound because Buttons is an outside cat. He has not been eating or drinking the past few days, is lethargic, and on PE has a T= 103.5>, HR = 180 bpm, and RR = 45 breaths/min. Other than the mandibular wound, he is healthy. He is current on vaccinations. The decision is made to sedate Buttons so that the wound can be clipped, cleaned, and debrided. You must calculate the dose of injectable anesthetic for Buttons, who weighs **12.5 lb.** The dosage of Ketamine is 22 mg/kg IM. The concentration listed on the vial of ketamine is 100 mg/ml.

The animal's weight in kg is?

- a. 2.4 kg
- b. 5.7 kg
- c. 7.1 kg
- d. 9.9 kg
- 39. The order is 0.5 mg of Centrine, and 0.2 mg tablets are on hand. How many tablets will be administered?
- a. 1.0 tablets
- b. 1.5 tablets
- c. 2.0 tablets

d. 2.5 tablets

40. A cat in end-stage renal disease is receiving epoetin (2000 u/ml). The dose is 100 u/kg. Your patient weighs 5.5 lb. How many units will you deliver?

a. 250 b. 500 c. 750 d. 1000 41. Translate the following into percents: 1:100 a. .05% b. .5% c. 1% d. 1.5% 42. 1000 mg = ____ g a. .001 b. .01 <u>c. 1</u> d. 10 43. How many mgs of a drug should be given to a patient weighing 22 lb if the dose is 0.2 mg/kg? a. 2 mg b. 2.2 mg c. 22 mg d. 22.2 mg 44. Indicate the tablets/capsules prescribed for the following order: Rx: Cephalexin capsules 250 mg Sig: 2 caps P.O., STAT; then 1 cap P.O., BID x 14 days a. 30 capsules b. 40 capsules c. 50 capsules d. 60 capsules 45. The veterinarian orders 4.4 mg/kg of carprofen for pain control divided into two equal daily doses for a 50-lb dog. On hand are 100-mg scored tablets. How many tablets is/are administered each morning and afternoon? a. 5 tablets in the morning and 2 in the afternoon b. 1 tablet in the morning and afternoon c. .5 tablets in the morning and 1 in the afternoon

46. The level of fluid in the liter bags reads at the 700 mark. How much fluid has been given?

a. 700 L

d. .5 tablets in the morning and afternoon

b. 700 ml

c. 300 L

d. 300 ml

47. Fenbendazole (10% suspension) is an antiparasitic drug used in the treatment of whipworms, roundworms, hookworms, and some species of tapeworms. For dogs the dosage is 50 mg/kg po for 3 days.

How many mls would you give a dog that weights 50 lbs?

a. 9.5 mls

<u>b. 11.4 mls</u>

- c. 12.1 mls
- d. 14.3 mls
- 48. Kyra, a 7-year=old, F/S mixed breed dog (107 lb) is presented to the clinic with signs of increases vocalization and urine leaking. She does not appear to be PU/PD (increased urination/increased drinking) or having accidents due to lack of training. She usually leaks urine after she has lain down (her bed is damp). The U/A (urinalysis) is WNL as the PE. Scout radiographs of the urinary bladder are unremarkable. Based on her history and pattern of urine leaking, the vet determines that she might have estrogen responsiveness incontinence. She is prescribed DES (diethylstilbestrol) at a dosage of 1 mg po sid for 3 days, followed by maintenance therapy of 1 mg po per week. DES comes in 1-mg and 5-mg tablets. How many mg does this dog receive for 3 weeks of treatment?
- a. 3
- b. 5
- c. 7
- d. 9
- 49. "Max" needs 30 mg. Gentocin IV Gentocin comes in two different concentrations; 50 mg/ml or 100 mg/ml. Using 50 mg/ml, how many ml would you draw up? AND Using 100 mg/ml, how many ml would you draw up?

a. 0.6 ml and 0.3 ml

- b. 6 ml and 3 ml
- c. 0.3 ml and 0.6 ml
- d. 3 ml and 6 ml

- a. 2
- b. 20
- c. 200
- d. 2000
- 51. To prevent inhaling gas when you are monitoring anesthesia, it is best for you to stand:
- a. Close to the patient's head.
- b. Away from the patient's head.
- c. Anywhere in the room.
- d. Outside of the room.
- 52. When treating or assisting a doctor with an animal's abscess wound, it is important to:
- a. Wear disposable gloves.
- b. Disinfect the treatment counter thoroughly.

c. Wash and disinfect all instruments used.

d. All of the above.

53. If you are bitten, scratched or cut when working around animals, you should:

a. Wash thoroughly with water and a disinfecting soap, then notify your supervisor.

- b. Quickly rinse out the area.
- c. Just wipe the blood off and bandage if needed.
- d. None of the above.
- 54. Rabies is transmitted through:
- a. Blood from the affected animal
- b. Urine from the affected animal
- c. Feces from the affected animal

d. Saliva from the affected animal

55. Lyme disease is caused by a:

a. Bacteria

- b. Virus
- c. Parasite
- d. Fungus
- 56. One of the fastest means of getting drugs in to the bloodstream is:
- a. Orally
- b. Intranasally
- c. Topically

d. Intravenously

- 57. Nebulized is defined as:
- a. Turned into a liquid

b. Turned into a fine mist

- c. Turned into molecules
- d. Turned into oxygen
- 58. The Snap Canine Heartworm Test tests the blood for:
- a. Adult heartworms

b. Antigen produced by female heartworms

- c. Microfilaria
- d. Female heartworms only
- 59. When in the heart, heartworms congregate in the:

a. Right ventricle

- b. Right atrium
- c. Left ventricle
- d. Left atrium

60. The amount of fecal matter needed for a canine or feline fecal analysis is approximately:
 a. The size of a baseball b. The size of a golf ball c. The size of a grapefruit d. The size of a grape
61. Which internal parasite is the most common in puppies and kittens?
a. Roundworm b. Hookworm c. Whipworm d. Giardia
62. The roundworm is often described as looking like:
a. Rice b. Spaghetti c. Flakes d. Leech
63. Whipworm eggs look like a/an under a microscope.
a. Circle b. Oval c. Rectangle d. Cone
64. What type of mite can cause a zoonotic disease?
a. Demodectic b. Otodectes c. Sarcoptic d. All of the above
65. What is the vector for heartworms?
a. Tick b. Lice c. Flea d. Mosquito
66. Ideally, a horse should be bedded on
a. Newspaperb. Strawc. Walnut shavingsd. Wood shavings

a. Phenols

67. Which of the following disinfectants is toxic to cats?

c. Quats
d. None of the above
68. What is the common percentage of Brahman and British breeds in American cattle?
a. 3/5, 2/5 cross
b. 3/7, 4/7 cross
c. 1/3, 2/3 cross
d. 3/8, 5/8 cross
69. Which of the following breeds of dairy cattle produce the most milk?
a. Jersey
b. Guernsey
c. Holstein
d. Brown Swiss
70. The breed of swine that is characterized by being solid black with a white belt at the shoulder and small erect ears is:
a. Duroc
b. Spots
c. Hereford
<u>d. Hampshire</u>
71. The is white in color and has large drooping ears that cover most of its face.
most of its face.
a. Yorkshire
b. Chester White
c. American Landrace
d. Hereford
72. Which breed of swine is characterized by being black in color with four white feet and/or legs, short wrinkled snout, and medium erect ears?
a. Spots
b. Berkshire
c. Hereford
d. Hampshire
73. The is characterized by a red with white face (not less than 2/3 red, exclusive of face and ears), with at least 2 white feet, long face/snout, and small to
medium erect ears.
a. American Landrace
b. Hereford
c. Berkshire
d. Duroc

74. An eight month old Chihuahua was stung by a wasp and had a fluctuation in its

b. Bleach

heart rate. What term describes its fluctuating heart rate?

a. Arrhythmia

- b. Auscultation
- c. Bradycardia
- d. Tachypnea
- 75. Annie is helping to examine a patient. She is instructed to take the temperature, pulse and respiration, which is a crucial part of a physical exam. Which of the following factors does not affect TPR?
- a. age
- b. size
- c. environmental temperature

d. breed

76. Which of the following answers best completes this statement?

Temperature, pulse and respiration rates tend to ______ as size of the animal _____.

a. increase, decreases

- b. decreases, decreases
- c. shallow, decreases
- d. decreases slowly, decreases rapidly
- 75. Sue is taking the temperature and pulse of Max, a medium sized dog. What should she expect the temperature and pulse rate to be? :
- a. 100°F and 100-145 beats/min.

b. 102°F and 70-120 beats/min.

- c. 100°F and 70-120 beats/min.
- d. 101°F and 60-90 beats/min.
- 76. Lauren is taking a patient history from Ms. Harper about her horse. Which is the most appropriate question for her to ask?
- a. "Is your horse drinking a lot of water and eating okay?"

b. "How much water is it drinking and how much is it eating?"

- c. "Is your horse able to exercise daily?"
- d. "Is you horse drinking more water now than compared to a few months ago?"
- 77. A vet diagnosed Bill's goat with dyspnea. What does this mean?
- a. The lamb has normal breathing.
- b. The lamb has abnormal heart sounds.

c. The lamb has difficulty breathing.

- d. The lamb has bluish discoloring of its skin.
- 78. Jane is taking a dog's pulse. What is the name of the artery where she will do this?

a. Femoral artery

- b. Brachiocephalic artery
- c. Facial artery

- d. Carotid Artery
- 79. During an exam, Julie must take vital signs from an animal. Which of the following steps is the most correct procedure for her to take the rectal temperature?
- a. Shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 1 minute, remove and rotate to read.

b. Shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 3 minutes, remove and rotate to read.

- c. Wipe thermometer with alcohol, shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 1 minute, remove and rotate to read.
- d. Wipe thermometer with alcohol, shake down thermometer, lubricate with petroleum jelly, gently insert and hold for 3 minutes, remove and rotate to read.
- 80. The average pulse (beats/min) and respiration (breaths/min) for a horse is
- a. 40-60, 12-20
- b. 60-70, 10-30
- c. 30-60, 8-16
- d. 60-90, 12-20
- 81. A stethoscope is a common piece of equipment used for clinical exams. The stethoscope is used to listen to the heart, lungs, and _______.
- a. murmurs

b. gastrointestinal sounds

- c. pre-natal sounds
- d. water on the lungs
- 82. The veterinarian is describing to Spike's owner how he'll be neutered. Neuter is defined as:
- a. Having resistance to a disease

b. The common term for removal of male reproductive organs

- c. Proteins produced by lymph system
- d. Swelling and inflammation
- 83. The veterinarian is explaining to Sally's owner how she will be spayed. Spay is defined as:
- a. Substance that induces an immune response
- b. Swelling and inflammation

c. The common term for removal of female reproductive organs

- d. Allergic response
- 84. If an animal was suffering from anaphylactic shock, it would be

a. An exaggerated allergic response

- b. Proteins produced by lymph system
- c. Minerals in the blood stream
- d. Slippery white film
- 85. An animal is being given a vaccine. Vaccine is defined as

a. A suspension of killed or modified microorganisms that stimulate an immune response when introduced into the body

- b. Swelling and inflammation
- c. More susceptible to disease
- d. Having no resistance to disease
- 86. An animal is vaccinated for rabies. Rabies is caused by:

a. A rhabidovirus

- b. Parvo virus
- c. Bacteria
- d. Fungus
- 87. Lauren is bandaging Bruce, a four year old horse. Leg bandages on horses are started on the _____ part of the leg and wrapped toward the back.
- a. Vertical
- b. Horizontal
- c. Lateral
- d. Proximal
- 88. The bellyband should _____ slightly as it is wrapped.

a. Overlap

- b. Space out
- c. Cut off circulation
- d. Never touch
- 89. Immunity is defined as:

a. Having resistance to a disease due to the formation of antibodies.

- b. Slow and painful abscess
- c. Rhabidovirus
- d. Not being able to tolerate disease
- 90. A kitten is suffering from FCV. Feline calicivirus is caused by:

a. RNA virus

- b. Fungus
- c. Bacteria
- d. Does not exist
- 91. Feline viral rhinotracheitis symptoms include:

a. Sneezing, discharge from nose and eyes

- b. Anorexia
- c. Aggression
- d. Licking of wound
- 92. Leptospirosis is caused by:

a. Leptospira bacteria

- b. DNA virus
- c. Borrelia burgdorferi bacteria
- d. None of the above
- 93. Symptoms of distemper include:
- a. Lameness
- b. Swollen joints
- c. Aggression
- d. Fever, vomiting, diarrhea, nasal secretions, and seizures
- 94. Rabies is transmitted by:
- a. Bite from a tick
- b. Ingestion of fecal material from infected dog
- c. Contamination of wound by saliva
- d. Inhalation bacteria
- 95. Frank, a 60lb bulldog, needs to get 60 mg of Prednisone once every other day for 10 days. How many total milligrams of Prednisone does Frank need for 10 days?
- a. 450 mg
- b. 300 mg
- c. 900 mg
- d. 100 mg
- 96. In reference to the previous questions, how many tablets will be dispensed for the 10 days (Prednisone will come in 30 mg tablets)?
- a. 10
- b. 20
- c. 90
- d. 110
- 97. Linda is going to perform a laboratory test. Where is it possible that she will be doing this?
- a. Veterinary hospitals
- b. Research facilities
- c. Zoos
- d. All of the above
- 98. In preparation for her CVA test, Mary is studying systems of the body. Which of these is NOT included in the circulatory system?
- a. Heart
- b. Lymphatics
- c. Blood Vessels
- d. Blood
- 99. If an animal has problems in the right side of the heart, what other problem will likely occur?

a. Ascites

- b. Lung congestion
- c. Nerve Degeneration
- d. Osteoporosis

100. Luke, a border collie, has a problem in the left side of the heart. What other problem will likely occur?

a. Ascites

b. Lung congestion

- c. Nerve Degeneration
- d. Osteoporosis
- 101. Mary is also studying the physiology of the body systems. Which of these is a function of the circulatory system?
- a. Respiration for the body
- b. Urination of waste products

c. Transportation of nutrients, blood cells, gases, etc.

- d. Protection of the body
- 102. Which of these is the correct flow of blood through the heart?

a. Right Atrium, Right Ventricle, Pulmonary Arteries, Lungs, Pulmonary Veins, Left Atrium, Left Ventricle, Aorta

- b. Left Atrium, Left Ventricle, Pulmonary Arteries, Lungs, Pulmonary Veins, Right Atrium, Right Ventricle, Aorta
- c. Right Atrium, Right Ventricle, Pulmonary Veins, Lungs, Pulmonary Arteries, Left Atrium, Left Ventricle, Aorta
- d. Left Atrium, Left Ventricle, Pulmonary Veins, Lungs, Pulmonary Arteries, Right Atrium, Right Ventricle, Aorta
- 103. What are the percentages of cells and plasma in blood?

a. 40% and 60%, respectively

- b. 50% and 50%, respectively
- c. 60% and 40%, respectively
- d. 30% and 70%, respectively
- 104. Which of these is NOT part of the process of filtration of the blood through the urinary system?
- a. Nephrons
- b. Medulla

c. Vena Cava

- d. Kidnev
- 105. While Linda was running a laboratory test, she evaluated total plasma protein, and noticed an elevated total plasma protein. This is a sign of
- a. inflammation
- b. infection
- c. dehydration

d. all of the above

106. In most species, what are the kidneys shaped like?

- a. Pears
- b. Circles
- c. Clovers

d. Beans

107. Sammy is trying to run a urinalysis. He first has to obtain urine from the dog. How can he obtain urine from an animal?

- a. Free Catch
- b. Cystocentesis
- c. Catheterization

d. All of the above

108. Sammy is trying to determine the specific gravity of urine. What tools can be used to accomplish this?

- a. Refractometer
- b. Urinometer
- c. Reagent Strips

d. All of the above

109. Sammy found a decreased specific gravity in the urine. This could indicate all of the following EXCEPT:

a. increased water intake

b. shock

- c. chronic renal disease
- d. other diseases

110. If Sammy had noticed an increased specific gravity, it could indicate all of the following EXCEPT:

a. chronic renal disease

- b. dehydration
- c. decreased water intake
- d. acute renal disease

111. Which of these is a chemical that Sammy would NOT have evaluated in urine?

- a. Ketones
- b. Glucose
- c. Blood

d. Saline

- 112. Which of these cells would Sammy NOT expect to see in an examination of urine sediment?
- a. Red blood cells

b. Viral cells

- c. White blood cells
- d. Epithelial cells

Read the following paragraph. Then answer the questions below.

I live in a rural farming community where everyone owns some breed of dog. A few houses down from mine lives an Australian Cattle Dog (a.k.a. Blue Heeler) named Rigo. She is quite accustomed to guarding her territory against rodents, skunks, coyotes, and rabbits. Rigo was found with a halfeaten rabbit a few months ago and then gave birth to a litter of eight puppies a few weeks later. When they were old enough for their first set of vaccinations the veterinarian found that all the puppies were infested with hookworms. The veterinarian prescribed medication for all patients, including Rigo, and told my neighbor that they should be rechecked at their next visit.

- 113. Rigo's hookworm infection could have been caused by which of the following?
- a. Direct ingested larvae from the environment or contracted larvae through the skin
- b. Indirect the rabbit could have been infected
- c. Rigo does not have a hookworm infestation

d. Both a and b

- 114. The puppies' infection could be best described as which type?
- a. Direct
- b. Indirect

c. Transmammary

- d. Transplacental
- 115. If the rabbit was infected with hookworms what would be the term for this type of host?

a. Paratenic

- b. Pest
- c. Atypical
- d. Infectious
- 116. Which of these is the scientific name for hookworm?

a. Ancylostoma caninum

- b. Dipylidium caninum
- c. Toxocara canis
- d. None of the above
- 117. James accidentally spilled bleach. In order to know the correct clean up procedure to take, he must check the MSDS. The acronym MSDS stands for:
- a. Material Safety from Disease Sheet

b. Material Safety Data Sheet

- c. Mechanical Safety Destruction Sheets
- d. Mechanical Safety Data Sheet

118. A member of OSHA is doing a walkthrough of a veterinary clinic. The Occupational Safety and Health Administration is housed in
a. The Department of Health b. The Department of Finance c. The Department of Security d. The Department of Labor
119. Adam has just assisted in restraining a Lhasa Apso for am IM injection. The RVT that gave the injection must now dispose of the needle and syringe. Where must all needles and syringes be disposed of?

- a. A bottle
- b. A dumpster
- c. A trashcan

d. A sharps container

- 120. When dealing with radioactive equipment, you should always wear:
- a. lead gloves
- b. lead apron
- c. a dosimeter

d. all of the above

121. If working in a veterinary clinic, you understand that the guidelines set forth by the Occupational Safety and Health Administration are based on the principle of

a. The Right to Know

- b. The Basis of Knowledge
- c. The Determination of Knowledge
- d. The Right of the Knowledge of the Law
- 122. People who work with animals on a daily basis are _____ faced with potentially dangerous situations.
- a. Never
- b. Sometimes

c. Always

- d. Rarely
- 123. Which of the following is NOT a hazard that you would face while working in a veterinary clinic?
- a. Physical hazards
- b. Chemical hazards
- c. Biological hazards

d. Psychological hazards

- 124. Which of these is NOT a disease-causing agent for zoonotic diseases?
- a. Fungi

b. Biologics

c. Viruses

d. Parasites

125. Ben may have been exposed to a bacterial zoonotic disease. Which of the following is NOT a zoonotic disease caused by bacteria?

a. Toxoplasmosis

- b. Leptospirosis
- c. Anthrax
- d. Tuberculosis
- 126. Which drug schedule has no current accepted medical use?

a. Schedule I

- b. Schedule II
- c. Schedule III
- d. Schedule IV
- 127. Cole has been asked to clean the front waiting area of the clinic. With regard to the types of sanitation, which of these best describes "cleaning"?

a. Physically removing all visible signs of dirt and organic matter such as feces, hair, etc.

- b. Destroying most microorganisms on nonliving things by physical or chemical means.
- c. Destroying all microorganisms and viruses on an object using chemicals and/or heat.
- d. Solutions that destroy microorganisms or inhibit their growth on living tissue.
- 128. When sanitizing, filtration is best described as:
- a. Using a chemical with a mop or sponge.
- b. Soaking items in a chemical disinfectant until they are used.
- c. Incinerating an object or exposing them to a flame.

d. Removing particles from the air using a physical barrier.

- 129. Dana has been asked to dispense a schedule drug as a pain killer for an animal that has had a hip replacement. According to the Controlled Substance Act, she must:
- a. understand the schedules that drugs are placed in and why.
- b. have an authorized person unlock the locked cabinet where the drugs are stored.
- c. ensure that the name and amount of drug used is recorded in the daily log.

d. All of the above.

- 130. Sugar, a small dog, has come into a veterinary clinic with sarcoptic mange. To prevent the spread of this and other zoonotic diseases, you need to:
- a. dispose of waste in a proper manner
- b. isolate infected animals
- c. wash hands often

d. all of the above

- 131. Evan is creating a poster over biohazards for his Veterinary Technology class. Which of these is NOT an example of a biohazard and therefore should not be included in his poster?
- a. Needles

- b. Materials soaked with bodily fluids
- c. Bandage material

d. None of the above

132. Fran is doing research on pathogens. A pathogen is:

a. A microorganism that produces disease.

- b. Disease that can be transmitted between animals and humans.
- c. Precautions taken to prevent contamination of a surgical wound.
- d. Refers to the back.
- 133. A veterinarian has diagnosed an animal with typhus, which is a zoonotic disease. Zoonotic means:

a. Disease that can be transmitted between animals and humans.

- b. Precautions taken to prevent contamination of a surgical wound.
- c. Refers to the back.
- d. A device that measures the amount of radiation someone is exposed to when performing radiology.
- 134. Proper PPE sometimes includes a dosimeter. This is:

a. A device that measures the amount of radiation someone is exposed to when performing radiology.

- b. Lead gloves
- c. A device that keeps animals from biting you.
- d. Something that covers your face while working with animals.
- 135. Aseptic technique is

a. Precautions taken to prevent contamination of a surgical wound.

- b. Cleaning surfaces with bleach
- c. Swabbing for a bacteria culture
- d. A chemical agent that kills of prevents to growth of microorganisms
- 136. While cleaning an exam room, Abby uses a disinfectant. This is:

a. A chemical agent that kills, or inhibits the growth of microorganisms on inanimate objects.

- b. a washcloth and hot water
- c. something that contaminates surfaces
- d. a chemical agent that allows that growth of microorganisms on inanimate objects
- 137. An animal has a superficial wound. Superficial means:

a. Near the surface, also called external.

- b. deep laceration
- c. a wound that is on the extremities of an animal
- d. on an organ.
- 138. Most surgical instruments are manufactured from ______

a. Aluminum b. Copper c. Lead d. Stainless steel
139. The operating room should be cleaned
a. Daily b. Weekly c. Bi-weekly d. Monthly
140. Which of the following would be considered a brachycephalic breed?
a. Labrador Retriever b. Dachshund c. Shih Tzu d. Border Collie
141. When a patient is having an ovariohysterectomy performed, the patient is placed in recumbency.
a. Lateral b. Dorsal c. Ventral d. Sternal
142. After autoclaving a surgical pack, you notice that the autoclave tape looks the same as it did when you placed it in the autoclave. What should you do now?
 a. Place the pack with the others – there is no reason to be concerned about the sterility of the instruments. b. Open the pack to check the instruments for sterility. If they look clean, they can be used. c. Just hide the pack so you do not get in trouble for it not being sterilized. d. Place the pack to the side and do not allow it to be used because the sterility of the pack is questionable.
143. A person who cares for equine feet including trimming and shoeing is called a/an
a. equestrian b. farrier c. hobble d. quittor
144. The amount of food provided to livestock in a 24-hour period is its

145. Examination by tapping the surface to determine density of a body area is called

a. graze **b. ration**

c. roughage d. silage

- a. palpation
- b. ausculatation

c. percussion

- d. tapping
- 146. The percentage of RBCs in blood is called a
- a. hematocrit
- b. PCV
- c. crit

d. all of the above

- 147. A machine that spins samples very rapidly to separate elements based on weight is a
- a. counter

b. centrifuge

- c. refractometer
- d. cannula
- 148. A set of signs that occur together is called a/an:
- a. sign
- b. symptom
- c. endemic

d. syndrome

149. The study of disease causes is

a. etiology

- b. toxicology
- c. biology
- d. pathology
- 150. You are doing maintenance on the anesthesia machine. You happen to notice that the granules in the canister are starting to turn purple. What does this usually indicate?
- a. The granules are more than 90 days old.
- b. The granules have lost the ability to absorb anesthetic gases.
- c. The granules should be turned over in the canister they will regain
- d. The granules have lost the ability to absorb carbon dioxide.
- 151. A normal capillary refill time (CRT) is:
- a. 5+ seconds
- b. 4-5 seconds
- c. 3-4 seconds

d. 1-2 seconds

152. Six 12 ounce puppies need deworming medication. If the dose is 1ml/lb, how many total ml do you need in order to deworm all of the puppies?

a. 4.5 mls

- b. 5.7 mls
- c. 6.9 mls
- d. 7.8 mls

153. The veterinarian requests 600 cc of a solution. The instrument used to measure only has marks for mls. You know the correct equivalent of 600 cc in mls because:

a. cc and mls are equivalent.

- b. A cc is twice the amount of a ml
- c. A ml is twice the amount of a cc
- d. A ml is half the amount of a cc
- 154. Six blood pressure readings are 115, 120, 123, 121, 121, and 112 mm Hg. What is the average value?
- a. 104
- b. 113
- c. 119
- d. 124

155. ¼ of a L is equivalent to:

a. 250 ml

- b. 500 ml
- c. 750 ml
- d. 1000 ml
- 156. What are the two factors that determine or influence an animal's disposition?

a. genetic make-up and environmental situation

- b. environmental situation and nutrition
- c. nutrition and housing
- d. housing and genetic make-up
- 157. If you had a horse that had a 102.4°F, would you be concerned?
- a. No, it is completely normal.

b. Yes, it is above normal.

- c. No, it is a little below normal.
- d. Yes, it is extremely below normal.
- 158. Your chicken has a heart rate of 275 beats per minute. Is that something to be worried about?
- a. Yes, that is above normal.
- b. Yes, that is below normal.

c. No, that is normal.

- d. No, that is below normal.
- 159. Which of the following hormones is the most primary hormone produced by the testes?
- a. Estrogen

b. Testosterone

- c. Progesterone
- d. Oxytocin
- 160. Which of the following is not a primary action of testosterone?
- a. Anabolic growth
- b. Promotes spermatogenesis
- c. Promotes secretions from accessory glands

d. None of these

- 161. What are the anatomical differences between the oviducts of most mammals and the oviducts of poultry?
- a. Mammals have one oviduct.
- b. Mammals do not have oviducts.
- c. Poultry do not have oviducts.

d. Poultry have one oviduct.

- 162. What is the main difference between the testes of mammals and the testes of poultry?
- a. Mammals have one testicle.

b. The testes of poultry do not descend out of the abdominal cavity.

- c. Poultry have one testicle.
- d. The testes of mammals do not descend out of the abdominal cavity.
- 163. What is the purpose of the infundibulum?

a. To transport the egg from the ovary to the oviduct.

- b. To expel the fetus.
- c. To contract during labor.
- d. To give nourishment to the fetus.
- 164. Which of the following hormones are the primary hormones produced by the ovaries?
- a. Estrogen and testosterone.
- b. Testosterone and oxytocin.
- c. Testosterone and progesterone.

d. Estrogen and progesterone.

165. What are the primary functions of the hormones that the ovaries produce?

a. Sexual behavior and maintenance of pregnancy.

- b. To give a deeper voice and more defined muscles.
- c. To maintain weight and pregnancy.
- d. To give secondary male characteristics and maintain weight gain.
- 166. Which of the following is not a function of the cervix?
- a. Connects the vagina to the uterus.
- b. Serves as a passageway for semen during copulation.
- c. Serves as a barrier for pathogens and prevents foreign material from entering the uterus.
- d. None of the above.

- 167. Which of the following is NOT a function of the uterus?
- a. Provides nourishment for the fetus.

b. Is the receptacle for the penis during copulation.

- c. Contracts to expel the fetus during parturition.
- d. Incubates the fetus during pregnancy.
- 168. Which of the following is NOT a function of the epididymis?
- a. Site of maturation for sperm.
- b. Site of transportation for sperm.

c. Site of decomposition for sperm.

- d. Site of storage for sperm.
- 169. What is a cryptorchid?
- a. Sterile female calf born twin to a male calf.

b. Condition in which one or both testicles remain in the body cavity.

- c. Process by which sperm are produced by the male.
- d. Causes destruction of the cotyledons of the uterus.
- 170. What is a freemartin?

a. Sterile female calf born twin to a male calf.

- b. Process by which ova are produced by the female.
- c. Respiratory viral disease that causes infertility.
- d. Condition in which one or both testicles remain the body cavity.
- 171. What does "Bang's" disease cause?

a. Abortions typically in the second half of pregnancy.

- b. A sterile female calf born twin to a male calf.
- c. A decrease in the production of sperm in the male.
- d. Respiratory viral disease that causes infertility.
- 172. What does IBR stand for?
- a. Infectious Born Respiration
- b. Indefinitely Bad Respiration

c. Infectious Bovine Rhinotracheitis

- d. Infectious Bovine Respiration
- 173. What is IBR?
- a. Sterile female calf born twin to a male calf.
- b. Condition in which one or both testicles remain in the body cavity.
- c. Causes destruction of the cotyledons of the uterus.
- d. Viral disease of the respiratory tract that can cause abortion.
- 174. What is oogenesis?

- a. Process by which sperm are produced by the male.
- b. Condition in which one or both testicles remain in the body cavity.

c. Process by which ova are produced by the female.

- d. Causes destruction of the cotyledons of the uterus.
- 175. What is spermatogenesis?

a. Process by which sperm are produced by the male.

- b. Condition in which one or both testicles remain in the body cavity.
- c. Process by which ova are produced by the female.
- d. Causes destruction of the cotyledons of the uterus.
- 176. The term that means of, or relating to dogs:
- a. Feline
- b. Bovine

c. Canine

- d. Galline
- 177. The term that means of, or relating to cats:

a. Feline

- b. Bovine
- c. Canine
- d. Galline
- 178. The term that means of, or relating to cattle:
- a. Feline

b. Bovine

- c. Canine
- d. Galline
- 179. The term that means of, or relating to horses:

a. Equine

- b. Galline
- c. Bovine
- d. Ovine
- 180. The term that means of, or relating to swine:
- a. Equine
- b. Canine
- c. Galline

d. Porcine

- 181. The term that means of, or relating to sheep:
- a. Equine
- b. Galline
- c. Bovine

d. Ovine
182. The term that means of, or relating to poultry:
a. Equine b. Feline c. Porcine d. Galline
183. A sexually mature male of the bovine species.
a. Heifer b. Steer c. Cow d. Bull

- 184. A female that has produced a calf.
- a. Heifer
- b. Steer

c. Cow

- d. Bull
- 185. A female that has not produced a calf.

a. Heifer

- b. Steer
- c. Cow
- d. Bull
- 186. A sexually mature male of the equine species.
- a. Colt
- b. Foal

c. Stud

- d. Mare
- 187. A female of the equine species that is four years of age or older.
- a. Colt
- b. Foal
- c. Stud

d. Mare

188. An immature male of the equine species.

a. Colt

- b. Foal
- c. Stallion
- d. Mare
- 189. The act of giving birth in horses.

a. Farrowing b. Foaling c. Whelping d. Laying
190. A mature female of the porcine species that has produced young. a. Hen b. Sow c. Gilt d. Ewe
191. An immature female of the porcine species. a. Hen b. Sow c. Gilt d. Ewe
192. A mature female of the galline species. a. Hen b. Sow c. Gilt d. Ewe
193. A newborn chicken.
a. Chick b. Pullet c. Cockerel d. Broiler
194. A sexually mature male of the ovine species.
a. Rooster b. Bull c. Barrow d. Ram
195. A sexually mature female of the ovine species.
a. Ewe b. Gilt c. Hen d. Filly
196. All telephone calls should be answered by the ring.
a. first b. third c. fifth d. seventh

197. Cat litter pans and gardening are the most common sources for which protozoan?
a. Toxoplasma b. Giardia c. Coccidia d. Ancyloplasma
198. Formalin is most commonly used for
 a. Disinfecting b. Flea prevention c. Copy machine toner d. Tissue biopsy
199. For safety, two people are required to lift anything weighing more than lb.
a. 10 b. 20 c. 30 <u>d. 40</u>
200. Which of the following is a zoonotic disease?
a. Ringworm b. Cat Scratch Fever c. Both A and B d. None of the above
201. The five types of white blood cells are:
 a. Eosinophil, basophil, neutrophil, lymphocyte, monocyte b. Thrombocyte, monocyte, neutrophil, lymphocyte, eosinophil c. Neutrophil, erythrophil, leukocyte, basophil, eosinophil d. Neutrophil, basophil, eosinophil, granulocytes, acanthocyte
202. What parasite transmits Lyme disease?
 a. Dirofilaria immitis b. Heartworm c. Lice d. Tick
203. To remove a tick you should:
 a. Use a match to burn the tick off b. Cut the tick off with a knife c. Pour alcohol on the tick, then pull it off d. Use tweezers to grasp the head and pull straight out
204. One disease that is transmitted by the tick is:

a. Rocky Mountain Spotted Fever

- b. Toxoplasmosis
- c. Salmonella
- d. Ringworm

205. The clinical signs of heartworm are:

- a. vomiting, deep cough, anemia
- b. anemia, deep cough, irregular heart beat

c. deep cough, irregular heart beat, exercise intolerance

- d. irregular heart beat, anemia, exercise intolerance
- 206. A veterinary assistant must inventory all supplies each month. She counts the following number of thermometers: 4, 12, 7, 23, and 9. What is the total number of thermometers?
- a. 45 thermometers
- b. 50 thermometers
- c. 55 thermometers
- d. 60 thermometers
- 207. A veterinary assistant counts the exam gloves in each room and determines there are 338, 191, 87, 420, 206, and 76 gloves. What is the total number of gloves?
- a. 1118 gloves
- b. 1218 gloves
- c. 1318 gloves
- d. 1418 gloves
- 208. A vet tech purchases a new uniform. She spends \$31 for the top, \$28 for the pants, \$56 for shoes, \$7 for socks and \$4 for a name pin. What was her total cost?

<u>a. \$126</u>

- b. \$136
- c. \$146
- d. \$156
- 209. A veterinarian in a critical care unit determines that one calf was given the following intravenous (IV) solutions in a 24 hour period: 745 milliliters (mL) of 0.9% normal saline, 420 mL of lactated ringers, 1,250 mL of 5% dextrose, and 15

mL of an antibiotic solution. How many total milliliters of IV solution did the patient receive?

- a. 1430 mL
- b. 2430 mL
- c. 3430 mL
- d. 4430 mL
- 210. A veterinary technician inventories the number of medication containers. She finds there are 1,137 safety-lock containers, 963 easy-open containers, 413 15mL bottles, 1,265 30mL bottles, and 258 ointment containers. What is the total number of medication containers?
- a. 3000 containers
- b. 4000 containers
- c. 4036 containers

- d. 1457 containers
- 211. A veterinary technician notes that a dog's leukocyte (white blood cell) count before surgery was 18,645. Two days after the surgery, the patient had a leukocyte count of 8,968. What is the difference in the leukocyte counts?
- a. 6977

b. 9677

- c. 1845
- d. 9577
- 212. A veterinarian is paid \$53,291 per year. After a raise, her yearly salary increases to \$56,509. What was the amount of her raise?
- a. \$2192
- b. \$3901
- c. \$1450
- d. \$3218
- 213. A veterinary technician is calculating the bill for hospital care for a kidney transplant cat. The bill for medical services and care was \$2,685. The owners paid \$1,389 when they picked up the cat. A few weeks later they paid another \$497. How much do they still owe?
- a. \$799
- b. \$899
- c. \$999
- d. \$1500
- 214. A cow weighed 1,743 pounds prior to calving. The calf weighed 97 pounds and the placenta and amniotic fluid weighed 189 pounds. How much did the cow weigh after calving?
- a. 1557 pounds

b. 1457 pounds

- c. 1357 pounds
- d. 1257 pounds
- 215. A steer weighed 1,145 pounds before harvest. One half of the carcass with fore quarters weighed 393 pounds and one half of the carcass with rear quarters weighed 341 pounds. How much of the steer could not be consumed?
- a. 408 pounds
- b. 409 pounds
- c. 410 pounds
- **d. 411 pounds**
- 216. A technician is using a microscope to examine a specimen. If the eyepiece on the microscope has a power of 15x (x means times; a power of 15x magnifies an object 15 times) and the objective has a power of 100x, what is the total number of times she is magnifying the specimen? **Hint:** to find total magnification on a microscope, multiply the power of the eyepiece times the power of the objective.

a. 1500x

- b. 2000x
- c. 2500x
- d. 3000x
- 217. An animal shelter worker is preparing formula for orphaned puppies. There are 9 puppies and each needs 2 ounces of formula. How many ounces of formula must be prepared?
- a. 16 oz

b. 18 oz

- c. 20 oz
- d. 22 oz
- 218. A secretary maintains the accounts and writes the paychecks for a veterinary facility. Eight vet techs earn \$13 per hour. If everyone works 40 hours per week, what is the total amount of money needed for the payroll each week?
- a. \$3160
- b. \$4060
- c. \$4160
- d. \$5060
- 219. The lab receives a prescription order from the veterinarian. He wants the patient to take 40 milligrams (mg) of amoxicillin four times a day for 25 days. The lab has 20 mg amoxicillin tablets. How many tablets should the vet tech give to the client for the 25-day period?
- a. 150 tablets

b. 200 tablets

- c. 250 tablets
- d. 300 tablets
- 220. A microbiologist is staining bacterial slides. He uses a bottle of Gram stain that contains 144 milliliters (mL) of solution. If each slide requires 18 mL of the solution, how many slides can he stain with one bottle of solution?
- a. 2 slides
- b. 4 slides
- c. 6 slides
- d. 8 slides
- 221. A zookeeper gives a pot-bellied pig 1200 milligrams (mg) of Streptomycin in a 24-hour period. How many mg does he give the pig per dose if he gives the medication every 6 hours (q6h)?
- a. 100 mg
- b. 200 mg
- c. 300 mg
- d. 400 mg
- 222. A veterinarian takes blood samples from cows for brucellosis testing. One morning he fills 16 vacutainers (vacuum tubes) with 10 cubic centimeters (cc) of blood, 31 with 9.5 cc of blood, 28 with 7 cc of blood, and 15 with 8.5 cc of blood. How many cc of blood did he obtain from all the cows?
- a. 778 cc

b. 780 cc

- c. 782 cc
- d. 784 cc

223. A veterinary technician is counting leukocytes (white blood cells). She counts four areas on the hemocytometer counting chamber, adds the four numbers together and then multiplies by 50 to obtain the correct leukocyte count. If the counts are 23, 27, 28 and 34 what is the correct leukocyte count?

a. 5600 leukocytes

- b. 5700 leukocytes
- c. 5800 leukocytes
- d. 5900 leukocytes
- 224. An animal health technician is stocking a cabinet with flea control products. He stocks three cases of spray containing 24 cans per case, 13 cases of shampoo with 12 bottles per case, 5 boxes of foam with 10 cans per case, and 6 cases of powder with 8 boxes per case. Three days later he calculates that 35 cans of spray, 18 bottles of shampoo, 5 cans of foam and 21 bottles of powder have been sold. How

many total items of flea killing preparations are left in the cabinet?

a. 245 preparations

b. 247 preparations

- c. 249 preparations
- d. 251 preparations
- 225. A vet tech gives a dog $\frac{1}{2}$ ounces (oz) of cough medicine at 6 PM and $\frac{1}{4}$ oz of cough medicine at 10 PM. What is the total amount of cough medicine received?
- a. ¼ oz
- b. ½ oz
- C. 3/4 OZ
- d. 1 oz
- 226. A vet tech is developing X rays. He follows the time chart recommended for the film he is using. What is the total time required to complete the developing process? Developing Process Time Required
- Developer 2 1/4 minutes Rinse 3/4 minute
- Fix solution 3 1/2 minutes Final wash 19 minutes
- a. 23 minutes

b. 23 1/4 minutes

- c. 23 1/2 minutes
- d. 23 3/4 minutes
- 227. A vet tech uses ½ oz, ¾ oz, and 5/8 oz of solution to perform three urinary analysis tests. How much total solution does she use?
- a. 1 oz
- b. 1 ½ oz
- c. 1 3/4 oz

d. 17/8 oz

228. A vet tech is in charge of the construction of a new X-ray development unit. She knows that to prevent radiation the walls must be at least 2 5/8 inches (") thick if gypsum sheet rock is used or 1/16" thick if sheets of lead are embedded in the wall to prevent the passage of radiation. What is the difference of thickness in the two walls?
a. 2 ½ inches b. 2 9/16 inches c. 2 ¾ inches d. 3 inches
229. A microbiologist notes that the average length of a bacterium is 1/1000 micrometer (mcm). Viruses range in size from 1/2500 to 1500mcm. How much longer is a bacterium than the smallest virus in mcm?
a. 3/5000 mcm b. 4/5000 mcm c. 3/500 mcm d. 7/5000 mcm
230. A veterinary pharmaceutical company technician uses a 480-milliliter (mL) flask of rabies vaccine solution to fill individual vials. If each vial holds 1/30 of the volume of the flask, how many mL of vaccine are in each vial?
a. 12 mL b. 14 mL c. 16 mL d. 18 mL
231. An animal that is comfortable with a halter on its head and that responds to the commands of the person who is leading it is said to be
a. halter responsive b. show ready c. halter broken d. domesticated
232. Identification tags are usually placed in the of cattle.
a. teeth b. nostrils c. hooves d. ears
233 Giving birth in sheep is known as
a. farrowing b. ramming c. lambing d. kidding
234. What is drenching?

a. giving a liquid medication orallyb. milking a dairy goat too oftenc. hosing down a production facilityd. washing a sheep thoroughly	
235. Both sheep and goats have hooves. a. cloven b. two toe-nails c. split d. all of the above	
236. Poultry rely on a, a strong mugrind their food.	scular organ that may contain grit, to
a. gaggle b. gizzard c. gosling d. gander	
237. In vivo vaccination involves injecting the vaccine into the	>
a. newborn chickb. hen's uterusc. pulletd. embryo in the egg	
238. Which of the following is NOT a method of disposing of facility?	dead birds in a poultry production
a. incineration b. burying c. recycling d. composting	
239. Which of the following animals is NOT a cecal fermente	r?
a. Horse b. Guinea Pig c. Pig d. Rabbit	
240. Which of the following is NOT one of the nutrients that sa. Proteins b. Oils c. Fats d. Water	hould be included in pet food?

You are feeding your dog Woof-Woof Dog Food. It costs \$14.95 for a 35-pound bag, You are

feeding a very large dog 3.5 cups of food per day, and each cup weighs 3.5 ounces.

241. Using the above scenario, what is the cost per pound?

- a. \$2.34 per pound
- b. \$0.23 per pound

c. \$0.50 per pound

- d. \$4.98 per pound
- 242. Using the above scenario, how many ounces are there in a bag?

<u>a. 560 ounces</u>

- b. 122.5 ounces
- c. 480 ounces
- d. 350 ounces
- 243. Using the above scenario, what is the cost per year?
- a. \$97.18 per year
- b. \$4,471.25 per year
- c. \$179.40 per year
- d. \$134.14 per year
- 244. Which of the following is the first of the five steps of the digestive process?

a. Mechanical

- b. Chemical
- c. Peristalsis
- d. Absorption
- 245. Which of the following are the "ABC's" of cardiopulmonary resuscitation?

a. Airway, Breathing, Compression

- b. Always Breath Continuously
- c. Airway, Breathing, Circulation
- d. Airway, Bleeding, Compression
- 246. Which of the following is NOT a warning sign that your dog or cat may be inclined to bite?
- a. Assuming submissive posture
- b. Crouching with tail between legs

c. Ears held back, tail wagging quickly

- d. Snarling, with fur on the back raised
- 247. What is prevention for anal sac swelling?
- a. let your dog scoot

b. have veterinarian check anal glands

- c. use an enema on a weekly basis
- d. let your dog lick their anal glands
- 248. With your veterinarian's permission, what medication can you give your dog if they have an allergic reaction?
- a. Pepto-Bismol
- b. Advil

c. Benadryl

d. Frontline

249. Lyme Disease is a disease caused by a spiral-shaped bacterium, Borrelia burgdorferi. Which of the following can become infected?

- a. Dogs & cats
- b. Horses & cattle
- c. Birds & wild animals

d. All the above

250. In the last few hours I have noticed that my dog has been drooling excessively, especially since she never really drools. What could cause this?

- a. oral ingestion of insecticides
- b. dental disease
- c. anxiety & nausea

d. All the above

251. Dogs and humans are susceptible to a variety of water-borne parasites. How can dogs become infected?

a. ingesting aquatic species

- b. swimming
- c. drinking pond water
- d. all the above

252. A dog that licks his feet, rubs his face, or scratches behind his elbows may be showing signs of:

a. Allergy

- b. Fatigue
- c. Hunger
- d. Boredom

253. How long is a dog in estrus?

a. between 4 - 21 days with a mean of 9 days.

- **b**. exactly 6 days.
- c. between 7 28 days with a mean of 11 days.
- d. exactly 15 days
- 254. Rascal, a 2 year old dog has a foul odor. What could be the cause?
- a. Any brownish material in his ears. He may have an ear infection.
- b. He has tartar on his teeth or very red gums. His teeth need attention.
- c. His skin is dry and has bumps.

d. All the above

255. Chipped bones, bowed tendons and other soft tissue injuries can cause what condition in horses?

- a. broken bonesb. lamenessc. even gaitsd. all the above
- 256. How long, on average, will a mature horse's hoof grow in a month?

a. .25 -.38 inches

- b. .15-.25 inches
- c. .38-.5 inches
- d. none of the above
- 257. Which breeds of dogs are less likely to cause human allergies?
- a. Spaniels
- b. Chows

c. Schnauzers

- d. Heelers
- 258. In horses, when a fixed object is grabbed with the incisor teeth and air is drawn in repetitively through the mouth, is what:
- a. boredom
- b. need of certain trace minerals

c. cribbing

- d. all the above
- 259. This term refers to a collection of pus (dead white blood cells) that has accumulated in a cavity formed by the tissue due to an infection or other foreign material.
- a. Antigen
- b. Bruise
- c.Abscess
- d. Slab
- 260. A bacteria or virus that causes clinical disease
- a. Founder
- b. Strangles
- c. Pathogen
- d. Antigen
- 261. The soft "v" shaped tissue in the center of the bottom of the horses hoof
- a. Sole
- b. White line
- c. Wall
- d. Frog
- 262. When breathing stops

a. Apnea

b. Tachypneac. Dyspnead. Detomidine
263.The study of disease causes
a. Pathology b. Etiology c. Anatomy d. Caudal
264. The only medical term for lying down is
a. Recumbent b. Adduction c. Flexion d. Abduction
265.The Occupational Safety and Health Act ofestablished the Occupational Safety and Health Administration in the Department of Labor.
a. 1969 b. 1970 c. 1971 d. 1972
266.Sheep have chromosomes.
a. 24 b. 34 c. 44 <u>d. 54</u>
267.Goats have chromosomes.
a. 50 b. 60 c. 64 d. 70
268.The normal pulse (bpm) for a pig is
a. 60 bpm b. 65 bpm c. 70 bpm d. 75bpm
269.A sheep has a temperature of 102.5°F. This is:
a. Too low b. Normal c. Too high

270 is essential for organ structure, nutrient transport and energy utilization.
a. Calcium b. Protein c. Sulfur <u>d. Phosphorus</u>
271.Grass tetany is a result of
a. Nitrogen overload b. Nitrogen deficiency <u>c. Magnesium deficiency</u> d. Phosphorous deficiency
272. Anthrax is adisease of livestock.
a. Fungal b. Parasitic <u>c. Bacterial</u> d. Zoonotic
273.Erythrocytes are microscopic cells also called
a. Platelets b. White blood cells c. Red blood cells d. Plasma
274. An example of a fungus is
a. Pink Eye b. Ringworm c. Sarcoptes d. Tuberculosis
275. What is the name of the set of guidelines to protect employees?
a. Employee Code of Ethics b. Employees Right to Know c. Hazard Communication Standard d. OSHA 276. All of the following are examples of hazards, except
a. Chemical b. Mental c. Physical d. Zoonotic
277. All of the following are examples of safety equipment, except

a. Back brace

b. Lead apron c. Lead gloves d. Lead shoes	
278. An MSDS must contain sections.	
a. 7 <u>b. 8</u> c. 9 d. 10	
279. OSHA was created in	
a. 1950 b. 1960 <u>c. 1970</u> d. 1980	
280. Which of the following is most important to schedule first when making appointments?	
a. Customer Preference b. Annual Appointments c. Emergencies d. Heartworm Checks	
281. Which of the following is a sign of someone using non-verbal communication to express jo a. Smiling b. Hand Shake c. Frown d. Crossed Arms	у?
282. What time of the day does the doctor typically do surgeries? a. Early Morning b. Late Afternoon c. Evening d. Lunch	
283. Which of the following situations would be considered an emergency? a. Annual Check-Up b. Runny Stool c. Flea Prevention d. Urinary Blockage	
284. Which of the following is NOT included on a cage card? a. Pet's Name b. Pet Owner's Name	

b. Pet Owner's Namec. Time of day they need to go outsided. Procedure

285. A good rule to follow when restraining animals for veterinary care is:

a. Apply the maximum amount of restraint possible to ensure the safety of all involved.

b. Apply the minimum effective amount of restraint that will keep the animal and personnel safe.

- c. Always apply the same amount of restraint: that which is usually tolerated by a member of the species being handled.
- d. Never use ropes when restraining animals.