**2015 State Veterinarian Science Practicum**

1. 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

2. 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

3. 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

4. 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

5. Indicate the minimum amount of tablets/capsules prescribed for the following order:

Rx: Ascription 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

6. 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

7. 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

8. 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

9. Translate the following into percents: 1:100

 a. .05%

 b. .5%

 c. 1%

 d. 1.5%

10. 1000 mg = \_\_\_\_\_ g

 a. .001

 b. .01

 c. 1

 d. 10

Key

1.c

2.b

3.c

4.b

5.a

6.b

7.d

8.a

9.c

10.c