VTEC 1230 Veterinary Lab Skills II

Nerd Book Project

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Hematology (provide pictures)**

**Canine/Feline (WBC, RBC, platelets)**

Cells- (photos of WBC, RBC and Platelets for both species) \_\_\_\_\_\_\_\_\_\_\_/20 pts

Sizes (photo or description of sizes) \_\_\_\_\_\_\_\_\_\_\_/10 pts

WBC & RBC Abnormal Cell Morphology (w/appropriate terminology) \_\_\_\_\_\_\_\_\_\_\_/20 pts

What causes the abnormal cell changes (from above)? \_\_\_\_\_\_\_\_\_\_\_/20 pts

**Large Animal (WBC, RBC, platelets)**

Bovine and Equine cells \_\_\_\_\_\_\_\_\_\_\_/­­­­20 pts

WBC & RBC Abnormal Morphology (w/appropriate terminology) \_\_\_\_\_\_\_\_\_\_\_/10 pts

What causes the abnormal cell changes (from above)? \_\_\_\_\_\_\_\_\_\_\_/10 pts

**Exotics (WBC, RBC, platelets)**

Reptilian, Avian blood cells \_\_\_\_\_\_\_\_\_\_\_/20pts

WBC & RBC Abnormal Morphology (w/appropriate terminology) \_\_\_\_\_\_\_\_\_\_\_/10 pts

What causes these abnormal cell changes (from above)? \_\_\_\_\_\_\_\_\_\_\_/10 pts

**Math formulas**

MCH, MCHC, MCV, RBC, Hemoglobin, WBC estimate, platelets estimate.

Corrections: Reticulocyte count, nucleate red blood cell correction, anemia.

\_\_\_\_\_\_\_\_\_\_\_/15 pts

**Hemocytometer (with a picture of the counting system grid)**

Full directions for the use of this WBC/RBC/Platelet counting system including how to calculate the results, quality control measure to insure the accuracy of the results. This is in the book. \_\_\_\_\_\_\_\_\_\_\_\_/15 pts

**Blood Chemistries**

What tests are included in a comprehensive profile? This is in a PP in the chemistry section \_\_\_\_\_\_\_\_\_\_\_\_/20 pts

What organ function is be tested with each test? \_\_\_\_\_\_\_\_\_\_\_\_/20 pts

What common disease processes are associated with each test? \_\_\_\_\_\_\_\_\_\_\_\_/20pts

**Electrolytes**

Normal ranges (canine/feline) \_\_\_\_\_\_\_\_\_\_\_\_/5 pts

Common ways to correct an imbalance \_\_\_\_\_\_\_\_\_\_\_\_/5 pts

**Blood Parasites (all species) this is in your book and PP**

Include pictures, cause, and treatment \_\_\_\_\_\_\_\_\_\_\_/20 pts

**Urinalysis (pictures when appropriate)**

Urinalysis Procedure- How to run all components of a UA ­­­­­\_\_\_\_\_\_\_\_\_\_\_/10 pts

Urine dip stick components and what the test indicates if positive \_\_\_\_\_\_\_\_\_\_\_/10 pts

Sediment components (why are these items in the urine?) \_\_\_\_\_\_\_\_\_\_\_/10 pts

How to label lab findings correctly (how we label our forms) \_\_\_\_\_\_\_\_\_\_\_/5 pts

**Parasitology**

Parasitology Procedures (How to perform all components of a fecal) \_\_\_\_\_\_\_\_\_\_\_/5 pts

Pictures are optional since you already have your flashcards from Lab I (no extra points will be given for pictures) it is your choice

How to label lab findings correctly (how we label our forms) \_\_\_\_\_\_\_\_\_\_\_/5 pts

**Cytology**

Vaginal cytology (pictures), all stages of vaginal cytology \_\_\_\_\_\_\_\_\_\_\_/5 pts

Procedure for gram staining a slide \_\_\_\_\_\_\_\_\_\_\_/5 pts

Ear cytology (a picture that includes yeast and bacteria) \_\_\_\_\_\_\_\_\_\_\_/5 pts

Error Free (spelling, grammar and content) \_\_\_\_\_\_\_\_\_\_\_/10 pts

Content is properly cited (see below) \_\_\_\_\_\_\_\_\_\_\_/100 pts

Organized/ portable \_\_\_\_\_\_\_\_\_\_\_/10 pts

Total: \_\_\_\_\_\_\_\_\_\_/450

**\*Please note: if your Lab II Nerd Book Project is not properly cited it is considered plagiarism and you will receive a score of zero for this project. If you are not sure how to properly cite your content use the online library tools for further help. A link to the DCTC library has been provided for you in the course content.**