



Questions Bank

Clinical pathology

Q1// Fill in the blanks:-

- 1- Erythropoietin its produced from ----- in response to -----.
- 2-The average erythrocyte life span in cow ----- and horse-----.
- 3----- Basophilic nuclear remnant within the cytoplasm of RBC. They are round, dark violet granules.
- 4-Increased rouleaux formation is seen with increased----- or ----- concentrations.
- 5----- are RBCs with irregular spicules. This type of poikilocyte is caused by an altered ratio of lipid to cholesterol molecules in the RBC membrane.
- 6-MCV femtoliters (fL) =-----
- 7----- are areas of denatured and precipitated Hb that are caused by oxidative damage to the RBC. Heinz body formation can lead to intravascular hemolysis.

Q2// Defines the following?

1. Schistocytes
2. Ghost cells
3. Basophilic stippling
- 4- Rouleaux

5. Mean corpuscular hemoglobin (MCH)

Q3// Select the most appropriate answer from the four choices given in each question?

1. The average erythrocyte life span in sheep :
 - A. 145 days
 - B. 70 days
 - C. 150 days
 - D. 160 days

2. Reticulocytes present normally in peripheral blood of the health dog about?
 - A. 0.5%
 - B. 2%
 - C. 1%
 - D. 5%

3. Red blood cell fragments that indicate the RBCs have been sheared by intravascular fibrin or turbulent blood flow .
 - A.Spherocytes
 - B.Heinz bodies
 - C. Dacryocytes
 - D. Schistocytes

4. Erthropoietin (Epo) its produced from
 - A. Liver

B. Bone marrow

C. Kidney

D. spleen

Q4// Mentions the function the following:

Basophils

Monocytes

Lymphocytes

Q5// Mention physiologic factors effect in the interpretation of leukocyte counts?

Q6// Mention the neutropenia are related to alteration in the bone marrow four D (4D)?

Q7// Mention causes the Lymphocytosis?

Q8// Mention causes of the monocytosis?

Q9//mention causes of the Eosinophilia

Q10// define the following

- 1- Shift to the left
- 2- A regenerative left shift
- 3- A degenerative left shift
- 4- Toxic neutrophils
- 5- Aleukemic Leukemia
- 6- Subleukemic Leukemia

7- Leukemic Leukemia

Q11// mention interpretation of the leukocyte picture depends upon the severity?

Q12// mention interpretation of the leukocyte picture depends upon the duration of the disease?

Q13// mention unfavorable prognostic signs

Q14// mention favorable prognostic signs

Q15// Write about Classification of the anemia?

Q16// Mention laboratory finding regenerative anemia?

Q17// Mention laboratory finding Hemolytic anemia?

Q18//Discussion relative polycythemia.

Q19// Mentions causes Haemolysis ?

Q20// Mention causes decrease in protein?

Q21// Mention causes hypocalcemia?

Q22// Mention causes hyperphosphatemia?

Q23// Mention the indication of the bone marrow?

Q24// Mention the limitation of the bone marrow?

Q25// Talk about the technique of the bone marrow?

Q26// Mention interpretation of the bone marrow?

Q27// Mention functions of Kidney?

Q28// Talk about blood urea nitrogen?

Q29// Mention causes increase urea nitrogen ?

Q30//Mention causes increased serum creatinine?

Q31//Write about clotting process?

Q32// Mention causes thrombocytosis?

Q33// Write about clotting mechanism?

Q34// Mention laboratory tests for coagulation?