University of Salahaddin Practical Animal Physiology



College of Agriculture Time: 1 hours

Animal Resource Department

Final Examination second trail/ Autumn course (2017-2018)

Q1/ Answer 4 of the following: (40 marks)

1- Define anticoagulant? And enumerate the main types of it?

2- What are the types of blood group systems?

3- What are the factors affecting of osmotic fragility of erythrocytes?

4- What are the functions of Mitochondria, nucleolus and ribosomes?

5- What is the principle of PCV test?

Q2\

A. Answer the following: (15 marks)

1. What is the principle of WBCs and RBCs account.

2. Describe how Oxy Hemoglobin is transport in the blood.

3. Writ the Composition of the diluting fluid Hayem’s Solution.

B. Define these following assents: (15 marks)

1. Besonophil. 2. Anemia. 3. Clean-up. 4. Phagocytosis. 5. polycythemia Vera.

Q3\ (30 marks)

A\ For experiment, if the volume of urine in min = 1.2 ml and concentration of para-amenohyboric acid in urine = 15 mg / mL and concentration of para-amenoheboric acid in plasma = 0.02 mg / ml and the injected substance in arterial blood = 2 mg / 100 ml of plasma and concentration of injected substance In venous blood = 0.4 mg / 100 ml of plasma. Calculate the real renal plasma flow (RPF).

B\ What are the functions of esophagus.

C\Type the specifications of material used in measuring the flow of renal blood.

Good Luck

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