Jlumark JR

UNIVERSITY OF ZAMBIA

SCHOOL OF AGRICULTURAL SCIENCES

ANIMAL SCIENCE DEPARTMENT

AGA 2110 ANIMAL ANATOMY AND PHYSIOLOGY

ASSIGNMENT 2

INSTRUCTIONS: ANSWER ALL QUESTIONS

1. Write short notes on the classification of bones and indicate the general functions of the bones in the animal body (10 marks)

2. Muscles can be divided into three main groups according to their structure, e.g.:

   a) Smooth muscle tissue.
   b) Skeletal muscle tissue.
   c) Cardiac (heart) muscle tissue.

   Write short notes on each of three types of muscles mentioned above. Be brief in your answering. (20 marks)

3. Describe the (3) major functions of the nervous system and with the aid of a diagram write short notes on the following ;

   a. The neuron
   b. Relexes
   (20 marks)

END OF ASSIGNMENT 2 TO BE HANDED IN FIRST FRIDAY OF SECOND TERM.

MULELA Jimmy

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SCHOOL OF AGRICULTURAL SCIENCES
DEPARTMENT OF ANIMAL SCIENCE

TEST TWO (2) – 40 MARKS **DURATION: 1½ hrs**

ANSWER ALL QUESTIONS

1. State the two reasons for maintaining a stable acid-base balance. [4]
2. What are functions of the components of a ruminant stomach? [6]
3. With the use of a well-labelled diagram, describe the anatomy of a modified monogastric digestive system. [16]
4. State the function(s) of a gall bladder and crop in animals. [4]
5. What is and state the function of syrinx. [4]
6. Briefly describe three adaptations of the respiratory system. [6]

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AGA 2110 ANIMAL ANATOMY AND PHYSIOLOGY

ASSIGNMENT 1

INSTRUCTIONS: ANSWER ALL QUESTIONS

ALL QUESTIONS CARRY EQUAL MARKS.

1. The biological membrane present in both eukaryotic and prokaryotic cells is also called as cell membrane. Explain why the cell membrane is of great significance to the animal cell.

2. Organelles are cell parts that are adapted and specialized to perform various vital activities of the cell. Describe the characteristics of the following organelles and state their functions within the cell.

   a. Endoplasmic reticulum,
   b. Golgi Apparatus,
   c. Lysosomes

3. Epithelial tissue covers the whole surface of the body and are divided into two groups depending on the number of layers of which it is composes, i.e. simple epithelium and stratified epithelium. Describe the characteristics of each of the two types of epithelial tissues and give examples of where they are found in the animal body.

END OF ASSIGNMENT 1 TO BE HANDED IN FIRST FRIDAY OF SECOND TERM

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ANIMAL SCIENCE DEPARTMENT

AGA 2110 ANIMAL ANATOMY AND PHYSIOLOGY

TEST 1

INSTRUCTIONS: ANSWER ALL QUESTIONS

ALL QUESTIONS CARRY EQUAL MARKS. TIME 1HOUR

1. Write short notes on the following four components of animal cells.
   a. Endoplasmic reticulum,
   b. Golgi apparatus,
   c. Mitochondria and
   d. Plasma membrane.

2. Epithelial tissue can be divided into two groups depending on the number of layers of which it is composes. Briefly describe the structure and functions of simple epithelium and stratified epithelium.

3. Write short notes on the following;
   a) Endoskeleton
   b) Classification of the skeletal bones
   c) Functions of the bone

4. Muscles can be divided into three main groups according to their structure, e.g.:

   a) Smooth muscle tissue.
   b) Skeletal muscle tissue.
   c) Cardiac (heart) muscle tissue.

   Write short notes on each of three types of muscles mentioned above. Be brief in your answering.

END OF TEST 1

NKUMA J MWIINGA

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ANIMAL SCIENCE DEPARTMENT

AGA 2110 ANIMAL ANATOMY AND PHYSIOLOGY

TEST 1

INSTRUCTIONS: ANSWER ALL QUESTIONS

ALL QUESTIONS CARRY EQUAL MARKS. TIME 1HOUR

1. Describe the critical features of the plasma membrane and explain why it is important to the cell. (10 marks)
2. Describe the characteristics of Squamous (pavement) epithelium, indicate where it is found and briefing outline its functions.(10 marks)
3. List down the classification of the skeletal bones and concisely state the general functions of the bone.(10 marks)
4. Describe the cardiac muscle and briefly state its functions in the animal body.(10 marks)
5. State the different types of neurons and explain how each one differs from other functionally.(10 marks)

END OF TEST 1

JOUMUNO MUYOIA

SCHOOL OF AGICULTURAL SCIENCES

ANIMAL SCIENCE DEPARTMENT

ANATOMY AND PHYSIOLOGY OF FARM ANIMALS

ASSIGNMENT 1

ANSWER ALL QUESTIONS

1. The plasma membrane or biological membrane is a critical component of the animal cell. Why is the plasma membrane so important to a functioning animal cell? Explain.

2. Simple epithelium can be sub divided according to the shape and function of its cells. Describe in detail the subdivisions of the simple epithelium and give examples of the animal body in which they are found.
3. The bones of the animal body come in a variety of sizes and shapes. Write short notes on the four principal types of the bones;

   a) Long,
   b) Short,
   c) Flat and
   d) Irregular.

END OF ASSIGNMENT

DUE 5th FEBRUARY, 2016 AT 8.00HRS