



MAASAI MARA UNIVERSITY

**UNIVERSITY EXAMINATIONS 2018/2019
ACADEMIC YEAR
THIRD YEAR SEMESTER ONE
UNIVERSITY EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF
SCIENCE**

**COURSE CODE: ZOO 3210
COURSE TITLE: ANIMAL PHYSIOLOGY**

**DATE: 29.4.2019
10.30AM**

TIME: 8.30AM -

INSTRUCTIONS TO CANDIDATE

**ANSWER ALL QUESTIONS IN SECTION "A" AND ANY TWO IN
SECTION "B"**

**ILLUSTRATE YOUR ANSWERS WITH APPROPRIATE DIAGRAMS AND
EXAMPLES**

SECTION A COMPULSORY. ANSWER ALL QUESTIONS
30MARKS.

1. Write short notes on thyroxine.

3marks

2. State the significance of Histology.

3marks

3. Name the six membrane proteins and give functions of each. 3marks

4. Describe irrigation as used in histology.

3marks

5. Write short notes on temporary slide preparations.

3marks

6. Outline the formation of tissue fluid in animals.

3marks

7. Describe a freezing microtome.

3marks

8. Outline the significance of tubular reabsorption in urine formation.

3marks

9. Briefly describe the three defence functions of blood.

3marks

10. Distinguish between symport and antiport transport.

3marks

SECTION B. ANSWER TWO QUESTIONS 40 MARKS.

11. Explain the preparation of permanent slides for electron microscopy.

20mark

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12. Describe the movement of solutes and water across the plasma membrane.

20marks

13. Discuss the control of movement in vertebrates.

20marks

14. Describe the structure and function of epithelial tissue.

20marks

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