



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR  
FIRST YEAR SEMESTER ONE**

**SCHOOL OF TOURISM AND NATURAL RESOURCE  
MANAGEMENT  
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND  
PRODUCTION**

**COURSE CODE: AHP 1103-1**

**COURSE TITLE: GROSS ANATOMY AND  
EMBRYOLOGY I**

**DATE: 8<sup>TH</sup> DECEMBER, 2022**

**TIME: 1430-1730**

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**INSTRUCTIONS TO CANDIDATES**

Answer ALL questions.

*This paper consists of 3 printed pages. Please turn over*

## GROSS ANATOMY & EMBRYOLOGY I [120 Marks]

- 1 a. Define the following terms (5 marks)
- Cranial
  - Caudal
  - Medial plane
  - Ventral
  - Distal
- b. Briefly explain any five classes of bone and give an example of a bone in each class. (10 marks)
- c. List four (4) non-articular depressions and give an example of one. (5 marks)
- 2 a. With the aid of a labelled diagram describe the general structure of a synovial joint (10 marks)
- b. Briefly discuss the functions of bone (10 marks)
- 3 a. Define agenesia and describe any two examples. (6 marks)
- b. With examples, briefly explain any two displacements of tissue during development. (4 marks)
- c. Define and classify monsters. (10 marks)
- 4 a. Name and briefly describe the germ layers. (10 marks)
- b. With the aid of a diagram, describe the fetal membranes. (10 marks)
- 5 a. Describe the function of the integumentary system and its adnexa (5 Marks)
- b. Using a sketch diagram, describe the cross-sectional structure of mammalian skin while highlighting the different layers (10 Marks)
- c. Using a sketch diagram, illustrate the cross-sectional structure of a mammalian hair (5 Marks)
- 6 a. Describe the modes of classifying mammalian muscles in myology (8 Marks)
- b. Describe the following muscles under the following subheadings: the location, origin, insertion, action, innervation, and blood supply
- Musculus Buccinator* (6 marks)
  - Musculus Sternocephalicus* (6 Marks)



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RESOURCE MANAGEMENT**

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AND PRODUCTION**

**COURSE CODE: AHP 1103-1**

**COURSE TITLE: GROSS ANATOMY AND  
EMBRYOLOGY I -PRACTICAL EXAM**

**DATE: 8TH DECEMBER, 2022**

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**GROSS ANATOMY & EMBRYOLOGY I-PRACTICAL [10 Marks]**

1. Identify the specimen labelled A..... (0.5 mark)

Classify the specimen ..... (0.5 mark)

2. Identify the specimen labelled B..... (0.5 mark)

Identify the main feature of the named tissue.....

..... (0.5 mark)

3. Identify the specimen labeled C..... (0.5 mark)

Name the part labeled ..... (0.5 mark)

4. Identify the specimen labeled D..... (0.5 mark)

Classify the specimen..... (0.5 mark)

5. Identify the specimen labeled E..... (0.5 mark)

Classify the tissue..... (0.5 mark)

Identify the main feature of the name tissue above.....

.....

..... (1 mark)

6. Name the muscle in part labeled F ..... (0.5 mark)

State the function of the muscle identified above .....

..... (0.5 mark)

7. Identify the specimen labeled G..... (0.5 mark)

Name the insertion of the tissue named above ..... (0.5 mark)

8. Identify the specimen labeled J..... 0.5 mark)

Name the structure labeled a - c in the above named structure (1.5 marks)

a) .....

b) .....

c) .....

