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AAF 222



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**MAIN CAMPUS
UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

SECOND YEAR FIRST SEMESTER MAIN EXAMINATIONS

**FOR THE BACHELOR OF SCIENCE DEGREE IN:
ANIMAL PRODUCTION AND AGRICULTURE AND
BIOECHOLOGY**

COURSE CODE: AAP 220

COURSE TITLE: ANIMAL NUTRITION

DATE: 13.12.23

TIME: 3-5PM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any TWO in section B

SECTION A ANSWER ALL QUESTION (30mks)

1. Define the following terms as used in animal nutrition **(10mks)**

- a. Digestion
- b. Lipase
- c. Saponification
- d. Esterification

- e. Hydrolysis

2. Explain the difference between aldohexose and ketohexose **(4mks)**

3. Highlight the key difference between the ribose and deoxyribose sugars **(2mks)**

4a) state **two** types of sugar acids **(2mks)**

b) Give **two** examples of derived lipids **(2mks)**

5. using a well labeled diagram explain the difference between L glucose and D Fructose **(5mks)**

6. Explain **two** types of proteins **(5mks)**

SECTION B ANSWER ANY TWO QUESTIONS (40MKS)

8. Discuss vitamins **(20mks)**

7. Discuss physical properties of proteins **(20mks)**

8. Discuss glycolysis **(20mks)**