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NATIONAL OPEN UNIVESITY OF NIGERIA

Faculty of Agricultural Sciences

Department of Animal Science and Fisheries

POP Examination 2021_2

Course: ANP502: Ruminant Nutrition

Credit Unit: 2

Time Allowed: 2 hours.

INSTRUCTIONS: Answer question one (Compulsory: 25 Marks) and any other THREE (15

marks each)

QUESTION ONE

i. Briefly describe the term feed additives

ii. Explain basic characteristics of an ideal feed additive

iii. List common feed additives and their mode of action 25 marks

QUESTION TWO

- i. What are the basic principles to be considered when formulating
- ii. What characteristics of the animal that determine the types of diets to be fed? 15 marks

QUESTION THREE

Write short note on Metabolisable energy and heat energy.

Highlight the factors that determines the level of heat energy produced in an animal 15 marks

QUESTION FOUR

i. List the main substrates of digestion

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- ii. Express in your own words the activities of the following key organisms bacteria involvement in the breakdown of protein in the rumen
 - 1. Prevotella bacteria species
- iii. Hyper Ammonia Producing (HAP) bacteria
- iv. Highlight the factors may affect the rate and extent of protein degradation. 15 marks

QUESTION FIVE

Explain in your own word the following nutritional disorders

- i. Grass Tetany
- ii. Acute Pulmonary Emphysema

15 marks

QUESTION SIX

Write short note on three (3) of the following.

- i. Nutrient Requirements of the Animal
- ii. Available Ingredient for Animal
- iii. Feedstuffs and Feedstuffs Analysis
- iv. Cost of the Ingredient

15 marks