

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
BIOMEDICAL SCIENCE AND BACHELOR OF SCIENCE IN BIOCHEMISTRY**

BIOC 313: NUTRITIONAL BIOCHEMISTRY

STREAMS:

TIME: 2 HOURS

DAY/DATE: THURSDAY 04/11/2021

8.30 A.M - 10.30 A.M.

INSTRUCTIONS

- *Answer question ALL questions*

Question One (30 marks)

- Briefly discuss the regulation of human pancreatic juice. (5 marks)
- Describe the digestion of food in the small intestines of human being. (5 marks)
- Discuss the absorption of minerals in monogastric animals (5 marks)
- Explain in detail the ruminant digestive development from birth until maturity. (5 marks)
- The pig is an example of a monogastric organism, Discuss the digestion of food in the mouth and stomach of the pig. (10 marks)

Question Two (20 marks)

- Discuss in detail the regulation of gastric secretion in human beings. (10 marks)
- Based on the diets they prefer, ruminants can be classified into distinct feeding types: Discuss (10 marks)

Question Three (20 marks)

- Discuss in details the absorption of the digested carbohydrates, fats and proteins in monogastric animals (10 marks)
- The pancreas is a very important organ in human digestion. Discuss. (10 marks)