CHUKA



UNIVERSITY

SUPPLEMENTARY / SPECIAL EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF

BIOC 313: NUTRITIONAL BIOCHEMISTRY

STREAMS: Y3S1BSc. BIOMEDICAL SCIENCE, BIOCHEMISTRY

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 18/11/2020 2.30 P.M - 4.30 P.M.

INSTRUCTIONS:

i. Answer Question One and any other Two Questions

ii. Do not write on the question paper

Question One (30 marks)

a. Briefly discuss the regulation of human pancreatic juice secretion. (5 marks)

b. Describe the digestion of food in the small intestines of human being. (6 marks)

- c. Discuss the absorption of minerals in monogastric animals (6 marks)
- d. With the aid of a diagram, elucidate the pre-caecal digestion in the horse. (7 marks)
- e. Explain in detail the ruminant digestive development from birth until maturity. (6 marks)

Question Two (20 marks)

a. Discuss in detail the regulation of gastric secretion in human beings. (10 marks)

b. The pancrease is a very important organ in human digestion. Discuss. (10 marks)

Question Three (20 marks)

a. The pig is an example of a monogastric organism, Discuss the digestion of food in the mouth and stomach of the pig. (10 marks)

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b.	Discuss in details the absorption of the digested carbohydrates, fats and proteins in monogastric animals (10 marks)
Question Four (20 marks) a. With the aid of a diagram, discuss the ruminant digestive anatomy and function.	
	(10 marks)
b.	Based on the diets they prefer, ruminants can be classified into distinct feeding types: Discuss (10 marks)