NATIONAL UNIVERSITY OF LESOTHO FACULTY OF HEALTH SCIENCES DEPARTMENT OF NUTRITION

PRINCIPLES OF METABOLIC ENDOCRINOLOGY-NUT3321 SEMESTER II EXAMINATION

MAY 2023 TIME: 3 HOURS MARKS:100

Instructions:

- a. Answer all questions.
- b. Write answers only.
- c. Number correctly

Question1

a. b.		(5) (8)
c. d.	Explain how the GI hormones are involved in metabolic functions.	(6) (5)
e.	hormonal and metabolic abnormalities). > Addison's disease > Chronic Kidney Disease > Cushing's syndrome > Hyperparathyroidism > Insulinoma > Type 2 diabetes mellitus	(12)
	Total: 48	8 Marks
	Question 2	
	a. Outline any 5 major functions of the GIT.	5)
	b. Mention any 2 mechanisms involved in the GIT activity and regulation.	(2)
	c. State any 2 incretin hormones.	(2)
	d. Critically discuss how incretin hormones can help in the management of	the
	following conditions:	
	(6)	
	Obesity	
	Diabetes Mellitus	
	Diarrhea	
	e. Fill in the table below:	
	GI Hormone Organ affected	
	1.	
	2.	
	2	

4.	
5.	

(10)

Total: 25 Marks

Question 3

- a. List and explain in detail the functions of corticosteroids. (6)
- b. The hypothalamus is known to be a master regulatory organ. Explain briefly its mechanism of control. (5)
- c. List and explain any 3 nutrient deficiency disorders. (3)
- d. Critically explain the feedback mechanism (negative and positive) and give examples of hormones or glands involved. (6)
- e. Critically discuss how homeostasis and steady state are involved in feedback mechanisms. (4)
- f. What are nutraceuticals? Give any 2 common claims given regarding the use of nutraceuticals. (3)

Total: 27 Marks

The end