

**PHYSIOLOGY PROGRAM**  
**COLLEGE OF HEALTH SCIENCES**  
**BOWEN UNIVERSITY IWO**  
**OSUN STATE, NIGERIA**  
**300 LEVEL PHYSIOLOGY EXAMINATION**  
**PHS 315 (& 215): GASTROINTESTINAL TRACT PHYSIOLOGY**  
**(1<sup>st</sup> SEMESTER, 2022/2023 SESSION)**

**Allocated Time:** 3 hours

**Venue:** COHES Red Hall

**Date:** February 14th, 2023

**Instruction:** Attempt **ALL** questions. Ensure that your matriculation number is clearly written on each page of your answer booklet.

- 1.) Explain the physiological processes involved in the consumption of protein-rich diet through the GIT. **(20 marks)**
  
- 2.) HCl secretion by the parietal cells is responsible for the acidic medium of the stomach. Discuss. **(10 marks)**
  
- 3.) Discuss, with four (4) examples, hormonal pathway of GIT regulation. **(10 marks)**
  
- 4.) Pancreatic juice is an important GIT fluid that aids in the process of digestion and absorption of food substances. Discuss. **(20 marks)**
  
- 5.) Explain the physiological relevance of gut microbiota. **(10 marks)**