BOWEN UNIVERSITY, IWOCOLLEGE OF HEALTH SCIENCES

PHYSIOLOGY PROGRAMME

2023/2024 FIRST SEMESTER EXAMINATION PHS 405 (ENERGY AND METABOLISM)

Date: February 1st, 2024 Allocated Time: 3 Hours

Instruction: Attempt all questions. Ensure that your matriculation number is boldly written on each page of your answer booklet.

- 1.) "Skin is an essential thermo-regulatory organ of the human body".

 Discuss. (20 marks)
- 2.) Briefly describe how clinical conditions affect energy balance and metabolism in the body (10 marks)
- 3.) Briefly explain how environmental factors can influence skin's temperature regulation (10 marks)
- 4.) Write an essay on hepatic liberation of energy from macronutrients. (20 marks)
- **5.**) Briefly describe the composition of an energy balance system.

(10 marks)