

PHYSIOLOGY PROGRAM
COLLEGE OF HEALTH SCIENCES
BOWEN UNIVERSITY IWO
OSUN STATE, NIGERIA

200 LEVEL PHYSIOLOGY EXAMINATION

PHS 205: GENERAL PHYSIOLOGY I (1st SEMESTER, 2022/2023 SESSION)

Allocated Time: 3 Hours

Venue: COHES Blue Halls

Date: February 13th, 2023

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

- 1.) Electrical events occur in excitable cells even at rest. Discuss. **(10 marks)**
- 2.) Mitochondria are usually described as the “power house” of cells. What does this mean? **(10 marks)**
- 3.) Excitation-contraction coupling allows the heart to beat in a co-ordinated manner without the need for conscious input. Discuss. **(20 marks)**
- 4.) A constant transport / exchange of biological materials between the ECF and ICF is essential for the optimal functioning of body cells. Using suitable examples, discuss four (4) types of transport mechanisms in the human body. **(20 marks)**
- 5.) Explain how effectors seek to restore normalcy in the internal environment following change(s) in the physiological pattern of body systems. **(10 marks)**