

BOWEN UNIVERSITY, IWO
COLLEGE OF HEALTH SCIENCES
PHYSIOLOGY PROGRAMME
2023/2024 FIRST SEMESTER EXAMINATION
PHS 221 (BLOOD PHYSIOLOGY)

Date: January 27th, 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.) Substantive gaseous exchange is highly dependent on functional iron-containing pigment. Discuss. **(20 marks)**
- 2.) Prevention of blood loss, formation of clots and maintenance of blood in a fluid state within the vascular system are important factors to be considered when exposed to injury. Discuss **(20 marks)**
- 3.) "*Blood is an homeostatic fluid.*" Briefly explain this statement. **(10 marks)**
- 4.) Mr Bee had haemorrhage due to injuries sustained in a ghastly motor accident and as a result, he was confirmed to be anaemic. Provide a detailed explanation on a life-saving procedure to help him. **(10 marks)**
- 5.) Blood group **O⁻** is considered a universal donor. True or False? Provide physiologic justification(s) for your answer. **(10 marks)**