PHYSIOLOGY PROGRAM

COLLEGE OF HEALTH SCIENCES BOWEN UNIVERSITY IWO OSUN STATE, NIGERIA

200 LEVEL PHYSIOLOGY EXAMINATION PHS 221: BLOOD PHYSIOLOGY (1st SEMESTER, 2022/2023 SESSION)

Allocated Time: 3 Hours Venue: COHES Red Hall

Date: February 11th, 2023

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

1.) A pregnant woman with blood group **O**- had a miscarriage of her second pregnancy following a previous delivery of an **O**+ baby. Explain the likely physiological basis for this experience, stating possible preventive measures.

(20 marks)

- 2.) Immuno-globulins are the foot soldiers of the immune system. What does this mean? (10 marks)
- 3.) Helper T-cells are the major regulators of immune function. Discuss. (10 marks)
- 4.) The availability of oxygen for body use is a function of iron-containing pigment of blood. Discuss. (10 marks)
- 5.) Immunity to a disease is achieved when the body system produces antibodies to that disease. Discuss. (20 marks)