## PHYSIOLOGY PROGRAM

## COLLEGE OF HEALTH SCIENCES BOWEN UNIVERSITY IWO OSUN STATE, NIGERIA

## 300 LEVEL PHYSIOLOGY EXAMINATION PHS 323: CARDIOVASCULAR PHYSIOLOGY I

(1st SEMESTER, 2022/2023 SESSION)

Allocated Time: 3 hours

Venue: COHES Red Hall

Date: February 16th, 2023

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

- **1.)** Explain the physiological mechanism underlying regulation of arterial blood pressure. **(20 marks)**
- **2.)** Give a detailed description of cardiovascular adjustments during moderate exercise. **(20 marks)**
- **3.)** The sinoatrial node is the pacemaker responsible for generation of electrical signals in the heart. Provide an explanation for this physiological process. **(10 marks)**
- **4.)** Discuss physiological variations of cardiac output. (10 marks)
- **5.)** The cardiac cycle is associated with some mechanical events / changes. Discuss. **(10 marks)**