

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

400 LEVEL PHYSIOLOGY EXAMINATION

PHS 419: ANIMAL EXPERIMENTATION (1st SEMESTER, 2022/2023 SESSION)

Allocated Time: 3:00 hours

Venue: COHES Blue Hall

Date: February 11th, 2023

Instruction: Attempt ALL questions. Ensure that your matriculation number is well written on the pages of your answer booklet(s).

- 1.) Laboratory animals are recommended for physiological research. Provide a scientific explanation for this recommendation. **(20 marks)**

- 2.) Using a named suitable laboratory animal, explain in details the method you would use to provide a scientific evidence for the use of *Vernonia amygdalina* (bitter leaf) as an experimental therapeutic intervention in a model of a named kidney disease. **(20 marks)**

- 3.) Briefly discuss how errors can arise in any experimental design and execution. **(10 marks)**

- 4.) With the exception of oral route, identify and briefly explain any five (5) routes of drug administration in laboratory rodents. **(10 marks)**

- 5.) Describe how to identify ill health in any named laboratory animal. **(10 marks)**