

PHYSIOLOGY PROGRAM
COLLEGE OF HEALTH SCIENCES
BOWEN UNIVERSITY IWO
OSUN STATE, NIGERIA
300 LEVEL PHYSIOLOGY EXAMINATION
PHS 317 (& 217): KIDNEY FUNCTION, FLUID AND ELECTROLYTE BALANCE
(1st SEMESTER, 2022/2023 SESSION)

Allocated Time: 3 Hours

Venue: COHES Red Hall

Date: February 13th, 2023

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

- 1.) The kidney produces concentrated urine in order to conserve body water. Discuss. **(20 marks)**

- 2.) Renal clearance is an essential physiological process that rids the body of metabolic waste products. What does this mean? **(20 marks)**

- 3.) How does the kidney carry out long term regulation of arterial blood pressure? **(10 marks)**

- 4.) With a suitable diagram, explain the physiology of the glomerular filtration barrier. **(10 marks)**

- 5.) Nephron is the functional unit of the kidney. Discuss. **(10 marks)**