



**ELIZADE UNIVERSITY, ILARA-MOKIN,
ONDO STATE, NIGERIA**

BASIC & APPLIED SCIENCES

BIOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION

2020/2021 ACADEMIC SESSION

COURSE CODE: BIO 210

COURSE TITLE GENERAL PHYSIOLOGY I

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....MAT. No:.....

INSTRUCTION

ANSWER ANY FOUR QUESTIONS

QUESTIONS

1. a) Define the digestive system and list its functions.
 b) Differentiate between intracellular and extracellular digestive system.
 c) Explain the following terms:
 - i. Nephrogenesis
 - ii. Henle's loop
 - iii. Peristalsis

2. a) Discuss briefly the evolutionary adaptation of vertebrate digestive system
 b) Mention three (3) enzymes and two (2) coenzymes in the Krebs Cycle.
 c) Define the nervous system and state its functions.

3. a) Discuss the feedback mechanisms of hormone
 b) Mention five (5) hormones and their respective functions
 c) List five factors that can affect transpiration

4. a) What is respiratory system
 b) Explain briefly the methods of respiration in both vertebrates and invertebrates.
 c) Discuss respiration in plants

5. a) Briefly explain the processes of urine formation
 b) Enumerate three forces that determine net glomerular filtration pressure
 c) Identify the name of the parts represented with letters in the Figure below

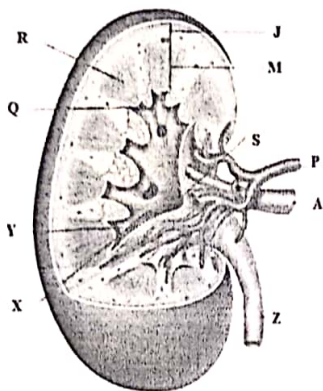


Figure 1

6. a) How do organisms living in freshwater regulate body osmotic balance?
 b) Highlight the differences between osmotic potential and ionic potential.
 c) Account for the survival adaptation for animals living in cold and hot regions