

SUPPLEMENTARY/SPECIAL EXAMINATIONS
CHUKA UNIVERSITY



Knowledge is Wealth (*Sapientia divitia est*)

**THIRD YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF EDUCATION
(SCIENCE) AND BACHELOR OF SCIENCE**

ZOOL 330: ANIMAL PHYSIOLOGY

Streams: BED (SCI); BSC (BIO); BSC (MICROBIO); BSC

INSTRUCTIONS:

- **Answer ALL the questions in Section A and any TWO in Section B**

SECTION A (30 mks)

1. Explain the following terms:-
 - a) Homeostasis (2 mks)
 - b) Positive feedback(2 mks)
 - c) Excitatory post synaptic potential (EPSP) (2 mks)
2. Explain the role of acid base buffers in PH regulation (6 mks)
3. Identify the target organ and one function of the following hormones
 - a) Insulin (2 mks)
 - b) Prolactin (2 mks)
 - c) Aldosterone (2 mks)
- 4.(a)Outline four functions of the plasma (4 mks)
(b)State the role of the following
 - i. Antithrombin (2 mks)
 - ii. Factor XIII (2 mks)
5. Explain the mechanism of secretion in the mammalian kidney (6 mks)

SECTION B (40 MKS)

6. Describe body fluid compartments (20 mks)
7. Discuss menstrual cycle (20 mks)
8. Describe digestion and absorption in the ileum (20 mks)