

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS.

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF DOCTOR OF PHILOSOPHY IN ZOOLOGY

ZOOL 911: TECHNIQUES IN ZOOLOGY

STREAMS: PhD (ZOOLOGY)

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 5/12/2018

2.30 P.M - 5.30 P.M.

INSTRUCTIONS:

- **ANSWER ANY THREE QUESTIONS**
- **EACH QUESTION CARRIES 20 MARKS**

1. (a) Discuss the main feature of a zoology laboratory.
(b) Discuss the criteria used in establishment of a zoology laboratory.
2. (a) Discuss the process of microtomy.
(b) Explain the importance of microtomy in zoology.
3. Discuss the concept of histochemistry and explain its importance in animal biology.
4. Discuss the main tenets of radioimmunoassay techniques.
5. Discuss various techniques of preserving whole invertebrate and vertebrate animal specimens citing appropriate examples.

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