CHUKA



UNIVERSITY

UNIVERSITY SUPPLEMENTARY/SPECIAL EXAMINATIONS.

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH

BIOL 00100: BOTANY AND ZOOLOGY

STREAMS TIME: 2 HOURS

DAY/DATE: WEDNESDAY 12/09/2018 11.30 A.M -1.30 P.M

INSTRUCTIONS:

- Answer ALL Questions in Section A and any TWO in Section B
- Do not write anything on the Question Paper
- Use illustrations where appropriate to enhance your answers

SECTION A [30 MARKS]

Give the function(s) of each of the following organelles of a cell: [5 Marks]

- (i) Golgi apparatus
- (ii) Cell wall
- (iii) Amyplast
- (iv)Lysosome
- (v) Chloroplast
- 2. (a) List three differences between eukaryotic and prokaryotic cells. [3 Marks]
 - (b) Name the discipline of biology that deals with the study of:
 - (i) Ants
 - (ii) Butterflies and moths. [2 Marks]
- 3. (a) Define the term homeostasis. [2 Marks]
 - (b) Explain one example of homeostasis in the body of a mammal. [3 Marks]
- 4. (a) Giving an example of each, distinguish between vital and mechanical functions of plant organs. [4 Marks]
 - (b) Distinguish between pure botany and applied botany. [1 Mark]

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5. (a) List seven taxa used in the classification of organisms in their sequence from down to species.	the largest [3½ Marks]
(b) Explain the meaning of "genus."	[1½ Marks]
6. (a) Explain briefly what meiosis is.(b) Explain the differences between cytology and cytokinesis.(c) Name of kingdom whose members are only unicellular organism.	[2 Marks] [2 Marks] [1 Mark]
SECTION B: [30 MARKS]7. Write an essay on the importance of Zoology.8. Discuss root modification among members of the Plant Kingdom.9. Discuss levels of organization of organisms.	[20 Marks] [20 Marks] [20 Marks]