CHUKA



UNIVERSITY

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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

ZOOL 313: TERRESTRIAL ECOLOGY

STREAMS: BSC (BIOLOGY) Y3S2 TIME: 2 HOURS

DAY/DATE: TUESDAY 16/04/2019 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

• Answer ALL questions in section A and any TWO in section B

SECTION A (30 MARKS)

- Q1. Differentiate between
 - (a) Ruminant and cecal grazers (2 marks)
 - (b) Venomous and constrictor snakes (2 marks)
 - (c) Pre-copulatory and post-copulatory behaviour (2 marks)
- Q2. Explain how eye-sight is important in predator-prey survival in terrestrial ecosystems. (6 marks)
- Q3. Describe non-chemical plant defenses against herbivory. (6 marks)
- Q4. (a) Describe survival strategies employed by organisms in dry lands. (4 marks)
 - (b) Explain the role of microorganisms in dry land environments. (2 marks)
- Q5. Describe factors that influence successful plant animal dispersal associations. (6 marks)

SECTION B (40 MARKS)

Q6. Give a detailed account of the feeding habits of birds. (20 marks)

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- Q7. Discuss the adaptations of desert flora and fauna in respect to water scarcity. (20 marks)
- Q8. Give a detailed account of terrestrial biomes with respect to precipitation, location and productivity. (20 marks)
