

UNIVERSITY OF FORT HARE

ZO0511

DEGREE EXAMINATIONS

JUNE 2018

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Time: 3 HOURS
Subject: ZOO 511
Marks: 120

This paper consists of 2 pages including the cover page

Internal Examiners

**Prof J Masters
Dr C Tambling
Dr D Forbanka
Mr A Perier
Mr LU Vumazonke**

External Examiners

Dr Shelley Edwards (RU)

INSTRUCTIONS

1. Answer ALL questions
2. Number your answers correctly using the same numbers as on the question paper.
3. Also, insert a note stating number of pages including cover

QUESTION 1 (CT)

- a) With the burgeoning human population, it is inevitable that humans and wildlife will come into conflict. As a conservation practitioner, discuss human-wildlife conflict and how you would mediate conflict management. In answering your question, contrast how the conflict and approaches to resolving the conflict will vary between South Africa and the rest of Africa. (30)
- b) Sport hunters argue that sport hunting is beneficial to conservation and studies have shown some of these conservation benefits. What other types of hunting do you get, and discuss how these other types of hunting can affect conservation efforts, using examples where possible? (10)

QUESTION 2 (DF)

- a) Important evolutionary changes during the Pliocene-Pleistocene (last 5.3 Ma) were mediated by changes in African climate. Discuss African climate-faunal evolution hypotheses. (15)
- b) Plio-Pleistocene fossil records of hominids document fundamental changes in hominid morphology and behavior which can be evaluated within broader context of other faunal paleoenvironmental changes. Describe the preferred habitats of hominid species with regards to evolution. (15)
- c) Climate change during the Plio-Pleistocene was characterized by global cooling and increased aridity. Discuss the causes of this global cooling and effects of increased aridity. (10)

QUESTION 3 (AP & JM)

- a) Most conservation biologists view species as the fundamental units of biodiversity. Write an essay about species concepts, taking care to mention the following issues:
- i. What makes species different from other levels of the taxonomic hierarchy? (15)
 - ii. Discuss two popular approaches to defining species that are currently in use? (15)
- b) Summarise briefly the five mass extinctions that took place during the history of life on Earth. What makes a mass extinction different from background extinction? (10)

****END OF PAPER****