

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FACULTY OF APPLIED SCIENCES
DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT
BACHELOR OF SCIENCE HONOURS DEGREE
MAIN EXAMINATION**

ORNITHOLOGY: EFW 2201

May 2014

Time Allowed: 3 Hours Total Marks: 100

INSTRUCTIONS TO CANDIDATES:

Answer **QUESTION ONE** and any other **THREE**. Each question carries **25 marks**.

1. With special attention to species-specificity, provide detailed descriptions of methods used in monitoring avian populations, outlining the pros and cons of each method.
2. (a) The Ostrich and the African Penguin are two non-flying birds. Describe how they move around, what are the adaptations for their types of movements. **[5 marks]**
(b) Write an essay on feathers and flight in birds. **[20 marks]**
3. Discuss form and function in five selected bird species including adaptive significance.
4. Write explanatory notes on the following:
 - (a) Habitat heterogeneity **[5 marks]**
 - (b) Reverse sexual dimorphism in raptors **[5 marks]**
 - (c) Vulture conservation – problems and solutions **[5 marks]**
 - (d) Bird identification **[5 marks]**
 - (e) Soaring flight **[5 marks]**
5. (a) How do CITES, RAMSAR, AEWA and the Bonn Convention/CMS contribute to the conservation of birds **[20 marks]**
(b) What measures should Zimbabwe put in place to conserve birds, and why? **[5 marks]**
6. Describe the different roles birds play in human lives and cultures and discuss their significance in the preservation of bird diversity.

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