



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2018/2019 ACADEMIC YEAR  
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL  
RESOURCES MANAGEMENT  
DIPLOMA IN TOURISM AND WILDLIFE  
MANAGEMENT**

**COURSE CODE: NDTW 113  
COURSE TITLE: NATURAL HISTORY OF BIRDS**

**DATE: 11<sup>TH</sup> DECEMBER, 2018**

**TIME: 0830 - 1030 HRS**

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**INSTRUCTIONS TO CANDIDATES:**

**Answer question ONE and any other THREE questions**

*This paper consists of 2 printed pages. Please turn over*

**QUESTION ONE (COMPULSORY) (25 Marks)**

a) Define the following terms; **(5 Marks)**

- (i) Evolution
- (ii) Sexual dimorphism
- (iii) Ornithology
- (iv) Taxonomy
- (v) Classification

b) State five characteristics of *Archaeopteryx lithographica* **(5Marks)**

c) Briefly explain birds antidepradation adaptations **(5 Marks)**

d) Describe how birds find their way during migration. **(5 Marks)**

e) Describe criterias under which birds are named **(5 Marks)**

**ANSWER ANY THREE (3) QUESTIONS (45 Marks)**

**QUESTION TWO**

Discuss general characteristics that differentiate birds from other vertebrates **(15 Marks)**

**QUESTION THREE**

Discuss factors affecting distribution of birds in Africa **(15 Marks)**

**QUESTION FOUR**

Discuss cues and evolutionary factors that affect timing of bird's migration

**(15 Marks)**

**QUESTION FIVE**

Discuss features used in the identification of birds in the field **(15 Marks)**

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