



# MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATIONS

FOR

THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY

COURSE CODE: ZOO 313/BOT 414

COURSE TITLE: EVOLUTIONARY BIOLOGY/MECHANISMS

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DATE: 23<sup>RD</sup> APRIL, 2018

TIME: 1100 - 1300HRS

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## INSTRUCTIONS TO CANDIDATES

- Answer **ALL** the questions in **Section A** and **ANY TWO** questions in **Section B**.
- Within a section, all questions carry equal marks. Illustrate your answers with well-labeled diagrams and give examples where appropriate.

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

**SECTION A: ASWER ALL THE QUESTIONS (30 MARKS)**

1. State and explain any three features man shares with the higher ape. **(3 marks)**
2. Briefly describe the conditions on the planet Jupiter. **(3marks)**
3. Briefly explain the origin of the planet Earth. **(3 marks)**
4. State the three most recent statements of William Lane Craig in 1994, regarding the existence of the universe. **(3 marks)**
5. State and explain any three patterns of evolution. **(3 marks)**
6. While defining evolutionary biology, highlight any three considerations of focus that help the understanding of evolutionary processes. **(3marks)**
  
7. State and explain any three distinctive features of Hominidae. **(3 marks)**
8. Explain any three major characteristics of the primates. **(3 marks)**
9. State any six causes of evolution. **(3 marks)**
10. What three features stand out to indicate that humans are a product of evolution? **(3 marks)**

**SECTION B: Answer ant Two questions (40 MARKS)**

11. Discuss the theories explaining the origin and evolution of life on the planet Earth. **(20 marks)**
12. Discuss evidences of evolutionary processes on the planet Earth. **(20 marks)**
13. Explain different types of speciation. **(20 marks)**
14. Discuss four major evolutionary modifications of the modern man. **(20 marks)**

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