



**MAASAI MARA UNIVERSITY**  
**REGULAR UNIVERSITY EXAMINATIONS**  
**2018/2019 ACADEMIC YEAR**  
**FOURTH YEAR FIRST SEMESTER**  
**SCHOOL OF SCIENCE**  
**BACHELOR OF SCIENCE**

**COURSE CODE: BOT 413**

**COURSE TITLE: PLANT GEOGRAPHY**

**DATE: 7<sup>TH</sup> DECEMBER 2018**

**TIME: 11.00AM- 13.00PM.**

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**INSTRUCTIONS TO CANDIDATES**

- (a) Answer ALL the Questions in Section A**
- (b) Answer ANY TWO Questions in Section B**

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

**SECTION A: ANSWER ALL QUESTIONS (30 MARKS)**

1. Briefly explain the adaptations of mangroves to their habitat. (3marks)
2. State any economic importance of plant roots. (3marks)
3. Briefly explain the steps in the origin of life. (3marks)
4. Briefly describe any three properties of Mediterranean regions? (3mark)
5. State the three genera of coniferous trees in the Boreal vegetation. (3marks)
6. Briefly describe the mass extinction in phanerozoic aeon. (3marks)
7. Name the 3 aeons and their approximate time (3marks)
8. Briefly explain any three evidences of continental drift. (3marks)
9. Briefly describe the differences in alternation of generations in mosses and seed plants. (3marks)
10. Briefly explain the branching system in the main axis of a tree stem. (3marks)

**SECTION B: Answer Any TWO questions (2X20=40 marks)**

11. a) Briefly describe the growth forms in angiosperms. (10marks)  
b) Describe vegetation types of Kenya (10marks)
12. a) Briefly classify plants in tropical deserts based on life modes. (8marks)  
b) Discuss the tundra environment. (12marks)
13. a) Outline any six morphological features common to angiosperms (6marks)  
b) Discuss the origin of angiosperms (14marks)
14. a) Briefly describe the process of double fertilization in angiosperms. (4marks)  
b) Compare angiosperms and gymnosperms (16marks)

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