#  <br> MAASAI MARA UNIVERSITY 

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR FIRST YEAR SECOND SEMESTER EXAMINATION

# SCHOOL OF SCIENCE \& INFORMATION SCIENCES <br> THE DEGREE OF BACHELOR OF SCIENCE 

COURSE CODE: AHP 1204
COURSE TITLE: BOTANY

DATE: 30 ${ }^{\text {TH }}$ APRIL, 2018
TIME: 0830-1030HRS

## INSTRUCTIONS TO CANDIDATES

(a) Select ONLY TEN Questions
(7 marks each)
(b) Illustrate your answers with well labeled diagrams where appropriate

## ANSWER ANY TEN QUESTIONS (7 MARKS EACH)

1. a) Describe the functions of peroxisomes in cells.
(3marks)
b) Outline any four roles of the vacuole in plant cells.
(4marks)
2. Briefly explain the four main aspects that plant taxonomy deals with. (7marks)
3. Enumerate any seven importance of studying botany.
(7marks)
4. Briefly describe any four illegitimate names rejected in nomenclature of plants.
(7marks)
5. a) Distinguish between the two polymers of starch. (4marks)
b) What are secondary metabolites in plants? Give an example
(3marks)
6. a) Briefly explain the activities in each of the three phases of growth in plants.
(3marks)
b) Distinguish between the two photosystems used in trapping of light in photosynthesis.
7. a) What is a tautonym? Give an example
b) State any five importances of herbaria.
8. a) State any three objectives of nomenclature.
b) Briefly describe the structures used in intracellular communication.
9. Briefly describe plastids as found in plant cells.
(7marks)
10. a) State the three important developments that have made seed producing plants more successful.
(3marks)
b) Outline four economic importances of angiosperms
11. Briefly describe the different types of parenchyma in plants. (7marks)
12. a) What is a meristem?
b) State any five characteristics of meristematic cells.
(5marks)
13. a) Explain the flow of energy in the ecosystem based on the two laws of thermodymics
b) State any four factors that limit the size a population in an undisturbed ecosystem.
14. Describe alternation of generations in plants.
15. a) What is a biome?
b) Briefly describe the Mediterranean scrub forest vegetation.

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