

30



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR

THIRD YEAR 2ND SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE BIOTECHNOLOGY

COURSE CODE: SBT 322

COURSE TITLE: PLANT EVOLUTION

DATE: 25/10, 2019 **TIME: : 11.30 – 1.30 P.M**

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Question One

- a) Define (4Marks)
- i. Polymorphism
 - ii. Evolution
- b) Differentiate between phenotype and genotype (4 Marks)
- c) Briefly discuss polyploidy in plants (4 Marks)
- d) Briefly explain Darwin's of evolution theory of evolution and natural selection (5 Marks)
- e) Explain how chemosystematics contributes to plants evolution (4 Marks)
- f) Explain how Plants fossils can be preserved (4 Marks)
- g) Briefly discuss rate of evolution and origin of angiosperms (5 Marks)

Question Two

Explain the major geological scales and their major events regarding plant evolution (20 Marks)

Question Three

Discuss how various plants breeding systems contributes to evolution of plants (20 Marks)

Question Four

Discuss polyploidy, hybridization and apomixes and their importance plant speciation and evolution (20 Marks)

Question Five

Discuss the characteristics that define Angiosperms as the most advanced group of plants (20 Marks)