



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA
FACULTY OF SCIENCE
SEPTEMBER 2020_1 EXAMINATION

COURSE CODE: BIO 404

COURSE TITLE: SYSTEMATIC BIOLOGY

COURSE CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS

- 1a. What is phylogenetic relationship? (2marks)
 - b. What is classical taxonomy? (2marks)
 - c. What do you understand by citation? (6marks)
 - d. Account for parallelism and convergence in taxonomy (5marks)
 - e. Discuss the experimental phase of plant taxonomic development (2 marks)
 - f. Explain the concept of 'polarity in plants' (4marks)
 - g. Discuss on Ecological Evidence as a Source of Taxonomic Evidence. (4 marks)
2. Discuss fully specific epithet (15marks)
3. Discuss the principles that form the basis of system of nomenclature (15marks)
- 4a. What is paleobotany? (5marks)
 - 4b. Discuss the roles of paleobotany in plant taxonomy (10marks)
- 5a. Explain what you know about the herbalist period of taxonomic history (5 Marks)
- 5b. Discuss classification according to Albert Magnus (5 Marks)
- 5b. Discuss the system of assigning names to plants in cultivation (5 marks)