

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

DEPARTMENT OF BIOLOGICAL SCIENCES

2024_2 EXAMINATION_

COUR CRED TIME INSTR	SE CODE: SE TITLE: IT UNIT: ALLOWED: RUCTION:	BIO 404 SYSTEMATIC BIOLOGY 3 Units 3 Hours Answer Question ONE (1) and any other THREE (3) Quest	
1.		erm systematics. ethods that characterised the methods used by ancient naturalists i	2 Marks
	plants.	shous that characterised the methods used by ancient naturalists i	4 Marks
	c. Who was Th	ephrastus?	5 Marks
	d. Why do botanists use botanical names over common names of plants?		6 Marks
	e. Physiological and biochemical evidence are indispensable knowledge towards understanding		
	biosystematics	. Discuss!	8 Marks
2.	 a. Highlight any three (3) problems associated with these names: i. quercus alba ii. Acacia Albida 3 Marks b. State the source of data in classical taxonomy. 7 Marks c. List any ten (10) shapes of pollen that are used in pollen study. 5 Marks 		
3.	a. Write the bo	ptanical name for rice	1 Mark
	b. Differentia	ate between Syntype and Lectotype	2 Marks
	c. What is a cultivar in botany 2 Marks		
) suggestions that botanists who are forming generic names and/	
	should con	nply with hat you know about the herbalist period of taxonomic history	6 Marks 4Marks
	e. Explain wi	hat you know about the neroanst period of taxonomic instory	Tiviaiks
4.	i. xantha ii. alb b. What is an e	ng are some terms for naming specific epithet; what are the mear ba iii. anglicus iv. Pendulus v. vulgaris vi. Rara effective publication e standardized ending for the following taxa: i. family ii. Order	nings of the terms? 3 Marks 2 Marks 2 Marks 2 Marks
	d. Mention the contributions of Andrea Caesalpino towards the development of modern taxonomy.		
			5 Marks
	e. What is a ch	aracter state?	3 Marks
5.	b. Chromoson chromosomes	any three (3) problems the problems associated with common nan ne morphology serves as good taxonomic character, descri according to the position of their centromere. llen polarity as a unique taxonomic trait.	

6. a. State the contribution of Pedanois Dioscorides towards the development of Taxonomy. 5Marks b. Succinctly, describe the nature and derivation of generic name. 10 Marks