

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

## DEPARTMENT OF BIOLOGICAL SCIENCES

## 2024 I EXAMINATION

COURSE CODE: **BIO 404** 

SYSTEMATIC BIOLOGY COURSE TITLE:

CREDIT UNIT: 3 Units

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TIM	E ALLOWED:	3 Hours		
INSTRUCTION:		Answer Question ONE (1) and any other THREE (3) Questions		
1	<ul><li>b. List seven ( comply with.</li><li>c. Discuss the</li></ul>	contributions of John Ray towards the development of modern taxono  7) suggestions that Botanists who are forming genus and/or species nar  features of Palaeobotany in relation to taxonomy.  e various pollen sizes that are used in plant taxonomy	my. 4 Marks mes should 7 Marks 9 Marks 5 Marks	
•		Columbia de la compressión de la compressión de la compressión de la columbia del la columbia de la columbia del la columbia de la columbia della columbia d	4 Marks	
2.	2. a. Discuss classification according to Albert Magnus 4			
	b. How did the Muslims, during the middle ages, contribute towards systematics?		4 Marks	
	c. What are the	reproductive traits used as source of taxonomic data?	7 Marks	
3.	a. Examine the anatomical features of the stem of a woody plant that could be used in taxonomic			
	study.		6 Marks	
	b. Enumerate th	ne general instructions for herbarium users.	9 Marks	
4.	<ul> <li>b. In a tabular for i. Labiatae ii</li> <li>c. List phases or</li> </ul>	neric names of coconut and mango form, give the new names for the following old family names:  Compositae iii. Caesalpinaceae iv. Palmae f development in plant taxonomy.	1 Mark 4 Marks 4 Marks	
	d. State the principles of International Code of Nomenclature for Algae, Fungi and Plants. 6 Marks			
5.	b. What are goo	erence between natural and artificial classification d and bad characters advantages of using botanical names over common names.	6 Marks 4 Marks 5 Marks	
6.	a. What is a biol b. State the source. Describe the	ogical species? ce of data in classical taxonomy.	2 Marks 7 Marks	

c. Describe the design of chromosomes according to the position of their centromere. 6 Marks