B.Sc. 4th Semester (Honours) Examination, 2021 ENVIRONMENTAL SCIENCE

Course Code: SH/ENV/401/C-8

Full Marks: 25

Course Titles Sustance tion 8-1

Course Title: Systematics & Biogeography

Time: 1 hr 15 min.

Course ID: 41811

The figures in the right-hand side margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1.	An	swer any five from the following questions:	1 X 5 =5
	a)	Who coined the term palynology?	
	b)	How do you read a phylogenetic tree?	
	c)	What factors causes adaptive radiation?	
	d)	Who proposed the concept of taxonomic hierarchy?	
	e)	Why phylogeography is important?	
	f)	What are protected areas?	
	g)	Which animal is the biggest hybrid animal?	
	h)	What is Allen and Bergmann's rules?	
	2.	Answer any two from the following questions:	5 X 2 =10
	a)	State the continental drift theory with a diagram.	
	b)	State the process of speciation.	
	c)	How DNA barcoding used in taxonomy?	
	d)	State the importance of gene in study of evolution.	
	3.	Answer any one from the following questions:	10 X 1 =10
	a)	State the use of remote sensing in conservation planning.	
		Write a short note on biosphere reserves.	5 + 5
	b)	State the classification given by Bentham and Hooker. Write th	ne types and rules of
		author's nomenclature.	5 + 5