2022

ZOOLOGY

[P.G.]

(M.Sc. Second Semester End Examination-2022)
PAPER- 201

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

Use separate Answer script in each Unit

Group – A Marks 20

Biosystematics

1.	An	swer any two questions from the following:	2x2=4
	a)	Write the name of two pre-Linnaean taxonomists.	2
	b)	Define systematics. Write one basic difference	between
		systematic and classification.	2
	c)	What do you mean by polytypic species? Give two examples.	2
	d)	Define sub-species with an example.	2
2.	An	nswer any two questions from the following:	2x4 = 8
	a)	Write down the tusk of a taxonomist.	4

b)) Is classification a theory? Write the function of classification in			
	biology.	2+2		
c)	c) Write down the role of systematic in Agriculture.			
d)	d) Write a note on International Code of Zoological Nomenclature.			
		4		
3. An	swer any one question of the following:	1x8 = 8		
a)	a) Describe biological species concept with its major drawbacks			
	during application of species identification.	4+4		
b)	b) What is phylogenetic tree? How phylogenetic is prepared to			
	study the evolution.	2+6		
	Group – B Marks 20			
Ecological Principles				
	Ecological Principles			
4 4		22 . 4		
	swer any two questions from the following:	2x2= 4		
		2x2= 4 2		
a)	swer any two questions from the following:			
a) b)	swer any two questions from the following: What is Ecosphere? Who coined the term?	2		
a)b)c)	swer any two questions from the following: What is Ecosphere? Who coined the term? What is ecotone? Give example.	2 2		
a)b)c)d)	what is Ecosphere? Who coined the term? What is ecotone? Give example. Write a short note on niche breadth.	2 2 2		
a)b)c)d)5. An	what is Ecosphere? Who coined the term? What is ecotone? Give example. Write a short note on niche breadth. What is Linkage density?	2 2 2 2		
a)b)c)d)5. Ana)	what is Ecosphere? Who coined the term? What is ecotone? Give example. Write a short note on niche breadth. What is Linkage density? swer any two questions from the following:	2 2 2 2 $2x4 = 8$		
a)b)c)d)5. Ana)	what is Ecosphere? Who coined the term? What is ecotone? Give example. Write a short note on niche breadth. What is Linkage density? wer any two questions from the following: Write a short note on Bet-Hedging strategies. State natural evidence on competitive exclusion theory.	2 2 2 2 $2x4 = 8$		

6. Answer any one question of the following:		
a)	Explain the cybernetic nature of ecosystems. State the different	
	between resistance and resilience stability.	4+4
b)	What is inclusive fitness? What is foundation species?	Briefly
	describe the niche overlap.	2+2+4
