PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023

(Fourth Semester)

Branch - BOTANY

ECOLOGICAL CONCEPTS

		ECOLOGIC	CAL CONCEPTS
Ti	me:	: Three Hours	Maximum: 50 Mar
		Answer	N-A (5 Marks) ALL questions rry EQUAL marks (5 x 1 = 5)
1		The study of units of vegetation of groups of organisms is called (i) Autecology (ii) Synecology (iii) Habitat ecology (iv) Applied ecology	
2		In an insect population which of the (i) Increase of adults by birth (iii) Increase of number of eggs	人名英萨 黄色新疆 医抗动物 经租赁费 化氯化氯化氯化氯化物 医二氯化物 医克雷氏管 化二氯甲基酚
3		Zonation of community can be con (i) Horizontal division (iii) Radial division	
4		The type of food chain operates in (i) Grazing food chain (iii) Detritus food chain	the decomposed litter is known as (ii) Linear food chain (iv) Sigmoidal food chain
5		Which one of these is not a biotic re (i) Animal (iii) Forest product	人名英格兰 化多克 医皮肤结合 医皮肤性 化二苯基甲基苯基酚 化基苯甲基苯基酚 化二苯基酚
		Answer A	- B (15 Marks) ALL Questions arry EQUAL Marks (5 x 3 = 15)
6	a b	Explain the Concept of Niche. OR Enumerate the major Habitat types you have studied.	
7	a b	Analyze the outcome of Interspecific competition based on logistic model. OR Highlight the significance of symphicais in histing 1.4	
8	a	Highlight the significance of symbiosis in biotic relationship. Produce the characteristics of a community. OR	
	b	Prepare a list of adaptive features	& Halophytes.
9	a b	Classify the biotic components of a pond ecosystem. OR Explain the means of ecosystem restoration.	
10		Discuss about MAB.	Coordinate in the control of the con
	b	OR Write about abiotic natural resour	rces, and the second

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- Analyse the changing pattern of climate and substantiate the initiatives of the 11 a organizations to overcome it.
- Discuss the characteristic features of estuarine ecology. Assess various factors that regulate the population growth. 12 a
 - b
 - Explain hypothetically the different types of age pyramids.
- Elucidate ecological succession. 13 a

b

- Analyse the synthetic characters of a community. b
- Explain the measures to calculate the primary productivity of an ecosystem. 14 a
 - Justify why the flow of energy is always unidirectional. b
- Trace the environmental hazard that affect the health of human population at 15 a various levels.

What is Remote Sensing? Assess the impact of Remote Sensing technology in b forecasting the climate change.

Z-Z-Z

END