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M.Sc. Botany (CBS) IInd Semester Examination ECOLOGY AND ENVIRONMENT

(Common with MZOO-202)

Paper-MBOT-202

Time: Three Hours]

[Maximum Marks: 40

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt five questions in all by choosing at least two questions from each Section. All questions carry equal marks.

SECTION-A

- 1. (a) Define the term ecosystem productivity. Discuss its types and significance.
 - (b) Describe the characteristic features and components of tropical rain forest.
- 2. (a) What do you mean by life history strategy? Explain the concept of r and k selection.

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	(b	Discuss the salient features of time lag model of population growth.	
3	, (n)	proposed for competition.	
	(b)	Write an explanatory note on global nitrogen cycle.	
4.	De	fine the term predation. Discuss the concept of predator- y interaction and role of predation in nature.	
5.	Wri	Write explanatory notes on the following:	
1	-	Categories of threat.	
	(b)	Biodiversity hot spot.	-
		SECTION-B	
6.	(a)	Define the term pollution. Discuss the causes, effects and control of water pollution.	
7/	(a)	What is ozone layer? Explain the causes and consequences of ozone depletion.	1
	(b)	Write a note on the concept of niche.	
3/		ain transfer of energy in an ecosystem.	3
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- 9. (a) What is global climate change? Discuss its impact on environment and life.
 - (b) Define the term extinction. Describe major causes of species extinction.
- 10. What do you mean by sustainable development? Discuss the principles of sustainable development.