No.	:	
	No.	No. :

Total No. of Questions: 11 ]

[ Total No. of Printed Pages : 3

## BOTASEM-107

## M.Sc. (Ist Semester) Examination Dec., 2022 BOTANY

Paper - BOT-103

## (Plant Ecology, Phytogeography and Environmental Monitoring)

Time: 3 Hours ] [ Maximum Marks: 40

The question paper contains three Sections.

Section-A (Marks :  $1 \times 10 = 10$ )

**Note**: Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section–B (Marks :  $3 \times 5 = 15$ )

**Note**: Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section–C (Marks :  $5 \times 3 = 15$ )

**Note**: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

## Section-A

- 1. Define the following:
  - (i) Habitat

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n r	RI-7	( 2 )	BOTASEM-107
	(ii)	EIA	2
	(i)	Sources of water pollution	1
	Outli	ne briefly :	
		Or	
Į.	Discı	uss briefly the effect of environmental pollution on plants.	
	(ii)	Phosphorus cycle	11/2
	_	Causes of plant succession	1½
	Expla	ain the following with examples :	
		Or .	
3.	` '	e a short note on the ecological pyramids and their limits	
	(ii)	Food chain and food web	2
	(i)	Scope of ecology	1
	Write	e short notes on the following :	
-		Or	
2.	Write	e a brief note on Ecological Niches.	
	()	Section-B	
	(x)	Green Belt	
	(ix)	Silvipasture	
	(viii)	Phytogeography Endemics	
	(vi) (vii)	PM-2.5  Phytogeography	
	(v)	Nitrification  PM 2.5	
	(iv)	Ecesis  Nitri Grantia a	
	(iii)	Rule of Ecological tenth	
	(ii)	Detritivorus	

5.	Difference each.	Differentiate between Sanctuary and National Park, citing any two names of each.						
		Or						
	Write short notes on the following:							
	(i)	Plant dispersal and migration	2					
	(ii)	Geographical barriers	1					
6.	. Describe the vegetation types of India with special reference to forest.							
		Or						
	Discu	ass briefly:						
	(i)	Role of IUCN in conservation of natural resources	2					
	(ii)	Characteristic features of agroforestry	1					
		Section-C						
7.	Write an explanatory note on the composition and structure of an ecosystem.							
8.	Discuss briefly process and models of plant succession, citing suitable examples.							
9.		e a detailed account on global consequences of air pollution with special						
	refere	ence to global warming and ozone depletion.						
10.	Define Biome. Add a detailed note on characteristic vegetation of the Indian							
	Thar	desert. Suggest some measures for conservation strategies.						
11.	Differentiate between renewable and non-renewable resources. Add a brief note							
	on n	ew alternative energy resources, supporting your answer with suitable						
	exam	ples.						