Your	Roll	No.	
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B.Sc. / II

AS

ES-201: Concepts of Ecology (Admissions of 2008 and onwards)

Time: 2 hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer Sections A and B on separate answer-books.

SECTION A

Attempt three questions in all, including Q. No. 1 which is compulsory.

- 1. Define any eight of the following:
 - (a) Humus
 - (b) Ecotypes
 - (c) Fidelity
 - (d) Hydrophyte
 - (e) Biosphere
 - (f) Gravitational water
 - (g) Frequency
 - (h) Life-form
 - (i) Endemism
 - (i) Biome.

 $1 \times 8 = 8$

P. T. O.

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7	Write	short	notes	On.	•

- (a) Adaptations of xerophytes. 5
- (b) Liebig's law of the minimum. 5
- (c) Phytoclimatic spectrum. 5

3. Describe any three of the following:

- (a) Soil texture and its role in water availability to plants
- (b) Indicator species
- (c) Tropical rain forests
- (d) Desert biome.

 $5 \times 3 = 15$

- 4. Write short notes on any three of the following:
 - (a) Types of succession
 - (b) Synthetic characters of community
 - (c) Distinguish between descriptive and interpretive phytogeography
 - (d) Thermal gradient in freshwater lakes. $5 \times 3 = 15$

SECTION B

Attempt three questions in all including Q. No.5 which is compulsory.

5. (a) Define:

- (i) Biome
- (ii) Biotic potential

		(iii)	Life table			
		(iv)	Eutrophication			
		(v)	Niche.			5
	(b)	Ехр	ain the following	terms:		
		(i)	Survivorship cur	ves		
		(ii)	Natality and mor	tality.		4
	(c)	Zon tical	es of marine eco y.	system.	Explain diag	gramma- 4
6.	Exp	lain _I	opulation growtl	ı curves.		12
7.	Def fund	ine E	cosystem. Explai of an Ecosystem.	n in det	ail the struct	ure and 12
8.	Wri	te sho	rt notes on any t	hree :		
-	<i>(i)</i>	Carb	on cycle			
	(ii)	Gaus	e's principle of co	ompetiti	ve exclusion	
	(iii)	Cora	reefs			
	(iv)	Ecot	one and its signifi	cance.		4,4,4