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W - 85 - 2018

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION OCTOBER/NOVEMBER, 2018

(CBCS/CGPA)

BOTANY

Paper IX

(Ecology and Environmental Biology)

(MCQ & Theory)

(Friday, 19-10-2018) Time: 2.00 p.m. to 4.00 p.m. Time—2 Hours Maximum Marks—40 N.B. : (i)Attempt All questions. All questions carry equal marks. (ii)(iii)Illustrate your answers with suitable diagrams. MCQ 1. Multiple Choice Questions: (i) The term ecology was coined by: (a) Strasburger (*b*) Hanstein (c)H. Reiter (d)Odum (ii)The lowest layer of atmosphere is: (a) Exosphere Thermosphere (*b*) (c)Troposphere (*d*) Mesosphere The viviparous mode of seed germination is found in: (iii)(a) Halophytes (*b*) Hydrophytes Xerophytes None of these (c)(*d*)

P.T.O.

WT			(2)		W-85-2018	
	(iv)	Casuarina and Ziziphus are:				
		(a)	Non-succulent xerophytes	(b)	Ephemerals	
		(<i>c</i>)	Succulent xerophytes	(<i>d</i>)	None of these	
	(<i>v</i>)	The numerical strength of a species in relation to definite unit area				
		is called:				
		(a)	Frequency	(<i>b</i>)	Density	
		(c)	Abundance	(<i>d</i>)	Dominance	
	(<i>vi</i>)	Plants and animals together forms community.				
		(a)	Climatic	(<i>b</i>)	Inorganic	
		(<i>c</i>)	Abiotic	(<i>d</i>)	Biotic	
	(vii)	The pyramid of numbers is in pond ecosystem.				
		(a)	Horizontal	(<i>b</i>)	Diagonal	
		(c)	Inverted	(<i>d</i>)	Upright	
	(viii)	Sulphur dioxide and nitrogen oxide gases in atmosphere cause :				
	9	(a)	Global warming	(<i>b</i>)	Acid rain	
	1000 C	(c)	Greenhouse effect	(<i>d</i>)	None of these	
	(ix)	Soil	Soil erosion can be prevented by:			
STATE		(a)	Over-grazing	(<i>b</i>)	Removal of vegetation	
		(c)	Deforestation	(<i>d</i>)	Afforestation	
	(X)	To prevent cutting of trees 'Chipko movement' commenced in				
		District.				
		(a)	Almora	(<i>b</i>)	Tehri-Garhwal	
		(c)	Nainital	(<i>d</i>)	Haldwani	
			Theory			
2.	Descr	Describe in detail various components of soil.				

WT (3) W—85—2018

Or

Write notes on:

- (a) Temperature as climatic factor
- (b) Nerium leaf.
- 3. What are hydrophytes? Describe morphological and anatomical adaptations in hydrophytes.

Or

Write notes on:

- (a) Abiotic component of Ecosystem
- (b) Food Web.
- 4. Describe nitrogen cycle in detail.

Or

Write notes on:

- (a) Deforestation
- (b) Pond Ecosystem.