This question paper contains 3 printed pages]

V-74-2017

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION OCTOBER/NOVEMBER, 2017

BOTANY

Paper IX

(Ecology and Environmental Biology)

(MCQ & Theory)

(Mond	lay, 1	3-1 1	L- 2017)		Time: 2.00 p.m. to 4.00 p.m.			
Time—2 Hours					Maximum Marks—40			
N.B. :-	- (i))	Attempt All questions.					
	(ii))	All questions carry equ	ıal marks.				
	(iii)		Draw well labelled diagram wherever necessary.					
	(iv))	Choose the correct answ	ver for MCQ	s.			
		A.S.		ICQ				
1. N	Multiple Choice Questions:							
(1		Th	e term ecosystem was c	oined by:				
O. C.	\$ 00 C	(a)	Nagelli	(b)	Hanstein			
71,00		(c)	Stanley	(d)	Tansley A.G.			
(i)	ii)	Th	ne non-living factors of the environment are called					
		fac	tors.					
5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		(a)	Biotic	(<i>b</i>)	Abiotic			
200 E		(c)	Both (a) and (b)	(d)	None of these			
	iii)	Ca	suarina and Nerium are		Xerophytes.			
	A SO	(a)	Ephemerals	(<i>b</i>)	Succulents			
	3,00,0	(c)	Non-succulents	(d)	None of these			

P.T.O.

WT		(2)		V-74-2017					
	(iv)	Some halophytes produces negatively called as:			geotrophic	breathing roots			
		(a)	Pneumatophores	(b)	Spermatoph	nores			
		(c)	Chromatophores	(d)	None of the	ese			
	(v)	The final stage of hydrarch represent stage.							
		(a)	Phytoplankton	(b)	Marsh Mea	dow			
		(c)	Reed Sedge	(d)	Climax For	est			
	(vi)	The arrangement of organisms in different layers in a community is:							
		(a)	Diversity	(b)	Niche				
		(c)	Stratification	(d)	None of the	ese			
	(vii)	The pyramid of biomass is always:							
		(a)	Upright	(b)	Curved				
		(c)	Inverted	(d)	None of the	ese			
	(viii)) Plant absorbs nitrogen in the form of:							
	100 co	(a)	Nitrate	(b)	Nitrite				
		(c)	Ammonium	(d)	All of these	9			
	(ix)	Soil erosion can be prevented by:							
		(a)	Overgrazing	(<i>b</i>)	Removal of	vegetation			
		(c)	Afforestation	(d)	Deforestation	on			
	(x)	Chipko movement was held under the leadership of:							
		(a)	Vinoba Bhave	(<i>b</i>)	Pandurang	Hegde			
		(c)	Prof. Madhav Gadgil	(d)	Sunderlal I	Bahuguna			
	6007L		Theory						
2.	What	are e	cological factors ? Describe	light a	and atmosph	ere as ecological			

2.

factors.

WT (3) V-74-2017

Or

Write notes on:

- (a) Temperature as ecological factor
- (b) Anatomical adaptations in Nymphea petiole.
- 3. What are Xerophytes? Describe morphological and anatomical adaptations in Xerophytes.

Or

Write notes on:

- (a) Biotic components of ecosystem
- (b) Food Web.
- 4. Describe causes and control of Soil Pollution.

Or

Write notes on:

- (a) Deforestation
- (b) Food Chain.