This question paper con	tains 3 printed pages]	•
	Roll No.	
S. No. of Question Paper	: 1390	
Unique Paper Code	: 6792011103	N.
Name of the Paper	: Diversity of Life Forms I	*
Name of the Course	: B.Sc. (H) Biological Sciences	
Semester	: I	
Duration: 2 Hours	Max	kimum Marks: 60
Instructions to Candida	ntes:	in the second se
(Write your roll nu	mber on the top immediately on receipt of this qu	estion paper.)
· This pap	per contains 6 questions. Answer only four question	ns.
	Question number 1 is compulsory to attempt.	
All p	arts of the question should be answered together.	
	Attempt each new question on a fresh page.	
1. (a) Define the fo	llowing (any 4):	1×4=4
(i) Biodiver		
(ii) Hormog	onia	
(iii) Mycelliu	m ,	Section 1
(iv) Strobilat	ion ,	
(v) Ametabo		
(vi) Madrepo		

P.T.O:

£	(b)	Fill in	the blanks:	ž 11 st		ē	3 * ·	}	dens (d	1×4=4
		(i) (Common name of S	elaginella is	•••••	entrun, 1	,		£ ga	
	•.	(ii) The main pigment in red algae is (ii)						, -	1、北縣	łį.
		(iii) .	is pro	esent in moll	uscs .i	for feeding.	2	\$	u 214	1
		(iv) .	type	of cells are	prese	nt in cnidaria	ens for	defens	e.	* n
((c)	Match	the following:						1 ¹ i ₂	1×4=4
		(i) 1	Nostoc		(a)	Lichens	·		× ·	*
	\	(ii) S	Symbiosis ,	•	(b)	Heterocyst				
		(iii) A	Appendiculate	ž	(c)	Pteridophyte	s		•,	
		(iv)	Vascular cryptogams		(d)	Marchantia		¥		•
	(d)	Differe	entiate between the f	ollowing:			••			1.5×2=3
		(i) N	Male & Female Asc	aris		ì	, ·	, ,	í	ì
	•	(ii) I	Polyp & Medusae.				t •	ુ અને કે કુ અને કે		
2.	(a)	With	the help of labelle	l diagrams e	xplai	n the develo	pment	of ma	ile an	d female
•	•	gameto	ophytes in Selaginell	a		t		k 14	6 24	7.5
	(b)·	Give a	a detailed account o	f life cycle o	f por	k tapeworm.	اد.	} * }*	* \$	7.5
3. '	° (a)	With t	the help of suitable	diagram illus	trate	the water vas	-	=		eroidea.
			-				* , ;	.\$ ₹ <i>/</i> *.	i o i	7.5

	(b)	Write short notes on the following (any 3)	3×2.5=7.5
		(i) Vesicular Arbuscular Mycorrhiza (VAM)	2.5
•		(ii) Economic importance of Lichens	2.5
		(iii) Female sex organ of Polysiphonia in in	2.5
•		(iv) Vegetative structure of Rhizopus	2.5
4.	(a)	Discuss key factors responsible for the biodiversity crisis/loss.	3.5
	(b)	Describe the thallus structure and reproduction in Nostoc.	· 4
•	(c)	Discuss the process of pearl formation in molluses with the h	elp of suitable
		diagrams.	. (7.5)
5.	(a)	Give an illustrative account of the sporophyte of Marchantia.	7.5
	(b)	Give a detailed description of the five kingdom classification given by	R.H. Whittaker.
			7.5
6. Disc		cuss the following (any three):	(5×3=15)
	·(i) ,	Structure of gemma cup of Marchantia	,
	(ii)	Canal system in Sycon	
٠	(iii)	Alteration of generation in Ectocarpus	
	(iv)	Sol gel Theory.	