and the second s	LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 60 B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECI		
	FIRST SEMESTER – NOVEMBER 2022		
Luc	UPB 1301 – PLANT DIVERSITY - I		
-	1	ax. : 100 N	Marks
111	me: 01:00 PM - 04:00 PM		
	SECTION A	(20 marks))
	er ALL the Questions		
1.	Choose the correct answer	(5 x 1 =	~
a)	In Pteridophytes, the group of sporangia is called as	K1	CO1
	i)cone ii) strobilus iii) sorus iv) gemma cup		
b)	Iodine is obtained from the brown alga	K1	CO1
	i)Gracillaria ii) Gelidium iii) Laminaria iv) Chlorella		
c)	The cell wall of fungi contains	K1	CO1
	i)chitin ii) chlorophyll iii) pectin iv) cellulose		
d)	called Amphibians of the plant kingdom.	K1	CO1
	i)Algae ii) Fungi iii) Bryophytes iv) Pteridophytes		
e)	Canada balsam is obtained from	K1	CO1
	i)Cycas sp ii) Taxus sp iii) Cedrus sp iv) Abies sp		
2.	Complete the following sentences	(5 x 1	= 5)
a)	Fritsch classification of algae is based on pigments, flagella and	K1	CO1
b)	A plant much and fungue according is called a	V 1	CO1
b)	A plant root-and-fungus association is called a	K1	CO1
c)	The negatively geotropic roots of <i>Cycas</i> are called the roots.	K1	CO1
d)	The example for water ferm .	K1	CO1
, ,		τ τ 1	0.01
e)	Common name for Sphagnum is	K1	CO1
3.	Answer the following, each within 50 words	(5 x 2 =	= 10)
a)	Mention the pigments of Algae.	K2	CO1
b)	Comment on the symbiotic relationship between algae and fungi.	K2	CO1
c)	Write a note on sporophyll.	K2	CO1
d)	Distinguish between unilocular and plurilocular sporangium	K2	CO1
e)	Compare legitimate and illegitimate names.	K2	CO1
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Answ	SECTION B			
	ver any TWO of the following each within 500 words. Draw diagrams / flowcharts	s wher	ever	
neces	ssary.	2 x 10	= 20)	
4.	Enlist the general characteristics of Bryophytes	K3	CO2	
5.	Enumerate the characteristic features of the family Euphorbiaceae.	K3	CO2	
6.	Illustrate the L.S of the flower and its parts of Annona squamosa along with a floral	K3	CO2	
	diagram.			
7.	Sketch out the points, must be noted in the field notebook during herbarium	K3	CO2	
	preparations. Add a note on the uses of herbaria.			
	SECTION C	<u> </u>	<u> </u>	
Answ	ver any TWO of the following each within 500 words. Draw diagrams / flowcharts	where	ever	
neces	•	x 10 =		
8.	Illustrate and analyze the salient features of Rutaceae with examples.	K4	CO3	
9.	Explain the life cycle of <i>Ectocarpus</i> .	K4	CO3	
10.	Draw and describe the structure of Hesperidium and Caryopsis.	K4	CO3	
11.	Cite the scientific name, family, useful parts, and uses of rice, Cotton and Jute.	K4	CO3	
	SECTION D			
Answ	ver any ONE of the following within 1000 words. Draw diagrams / flowcharts whe	rever		
neces	(1	x 20 =	= 20)	
12.	Describe in detail the life cycle of <i>Puccinia</i> .	K5	CO4	
13.	Mention the scientific name, family, active principle, and its uses of goose berry,	K5	CO4	
	ginger, nilavembu and tulsi.			
	SECTION E			
Answ	ver any ONE of the following each within 1000 words. Draw diagrams / flowchart	s whe	rever	
neces	essary.		$(1 \times 20 = 20)$	
	List out the characteristic features of Fungi and Algae.	K6	CO5	
14.			~~.	
14. 15.	Mention the common name, scientific name, family, useful parts, and uses of any	K6	CO5	