LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

U.G. DEGREE EXAMINATION – **ALLIED**

FIRST SEMESTER – **NOVEMBER 2024**

UPB 1301 – PLANT DIVERSITY - I

Date: 20-11-2024 Dept. No. Max. : 100 Marks

Time: 09:00 am-12:00 pm

	SECTION A - K1 (CO1)	
	Answer ALL the Questions	**(10 x 1 = 10)**
1.	**Fill in the blanks**	
a)	The symbiotic relationship between algae and fungi is called _____.	
b)	In *Ectocarpus*, the reserve food is a type of carbohydrate called _____.	
c)	The study of algae is known as _____.	
d)	Bryophytes are called _____ of the plant kingdom.	
e)	Cereals are rich source of _____.	
2.	**State whether the following statements are TRUE or FALSE**	
a)	The primary host of *Puccinia* is wheat.	
b)	The leaves are dimorphic in *Cycas*.	
c)	Chilli belongs to the family Rubiaceae.	
d)	Cardamom belongs to the family Zingiberaceae.	
e)	The active principle of Goose berry is ascorbic acid.	
	SECTION A - K2 (CO1)	
	Answer ALL the Questions	**(10 x 1 = 10)**
3.	**Choose the correct answer**	
a)	*Puccinia graminis* causing a.black rust b.brown rust c.yellow rust d.white rust	
b)	In Pteridophytes, the group of sporangia together is called as_____ a.cone b. strobilus c. sori d. gemma cup	
c)	Hesperidium is a type of fruit seen in a.Rutaceae b.Lamiaceae c.Annonaceae d.Poaceae	
d)	*Tectona grandis* is a scientific name for a.Sal b.sandal c.red sandal d.teak	
e)	The scientific name for Turmeric is a.*Curcuma longa* b.*Syzygium aromaticum* c.*Shorea robusta* d.*Cannabis sativa*	
4.	**Answer the following, each in about 50 words**	
a)	Compare unilocular and plurilocular sporangium of *Ectocarpus.*	
b)	What is sporophyll?	
c)	What is caryopsis?	
d)	Write the scientific name and useful part of coconut.	
e)	Indicate the biological source and active principle of *Ocimum sanctum*.	
	SECTION B - K3 (CO2)	
	Answer any TWO of the following in 500 words **Draw diagrams / flowcharts wherever necessary**	**(2 x 10 = 20)**
5.	Demonstrate the structure of the Gametophyte with sporophyte of *Funaria*.	
6.	Write the economic importance of Algae.	
7.	Interpret the characteristic features of Annonaceae.	
8.	Write the scientific name, family, useful parts, and uses of beetroot and papaya.	

	SECTION C – K4 (CO3)
	Answer any TWO of the following in 500 words **(2 x 10 = 20)** **Draw diagrams / flowcharts wherever necessary**
9.	Analyze the herbarium techniques.
10.	Explain the microsporophyll of *Cycas*.
11.	Describe the characteristic features of the family Rutaceae.
12.	Enlist the economic importance of fungi.
	SECTION D – K5 (CO4)
	Answer any ONE of the following in 1000 words **(1 x 20 = 20)** **Draw diagrams / flowcharts wherever necessary**
13.	Compare the internal characteristic features of the normal and coralloid root of *Cycas*.
14.	Specify any two beverages, medicinal plants, spices and condiments with their scientific name, family, useful parts, and uses.
	SECTION E – K6 (CO5)
	Answer any ONE of the following in 1000 words **(1 x 20 = 20)** **Draw diagrams / flowcharts wherever necessary**
15.	Summarize the life cycle of *Puccinia.*
16.	Assess the floral characters of *Oryza sativa*. Add a note on its economic importance.

############