



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

U.G. DEGREE EXAMINATION – ALLIED
FIRST SEMESTER – NOVEMBER 2023
UPB 1301 – PLANT DIVERSITY - I

Date: 09-11-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

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) *Ectocarpus* belongs to the class _____.
 - c) The study of fungi is known as _____.
 - d) Bryophytes are called _____ of the plant kingdom.
 - e) A pulse, sometimes called a grain ____.
2. **State whether the following statements are TRUE or FALSE**
 - a) *Puccinia* is included in the class Basidiomycetes.
 - b) The leaves are dimorphic in *Cycas*.
 - c) A specimen derived from a non-original collection that selected to serve as the type is called Lectotype.
 - d) Cardamom belongs to the family Zingiberaceae.
 - e) The active principle of Gooseberry is ascorbic acid.

SECTION A - K2 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

3. **Choose the correct answer**
 - a) *Funaria* is commonly called as
a.club moss b.sago palm c.cord moss d. liver worts
 - 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 of nilavembu is
a.*Phyllanthus emblica* b.*Andrographis paniculata* c.*Ocimum sanctum* d.*Phyllanthus niruri*

4. **Answer the following, each in about 50 words**
 - a) Compare unilocular and plurilocular sporangium of *Ectocarpus*.
 - b) State the classification of *Cycas*.
 - c) Explain the culm and ligule of the family Poaceae.
 - d) Write the scientific name and useful part of clove.
 - e) Indicate the family and active principle of *Andrographis paniculata*.

SECTION B - K3 (CO2)

Answer any TWO of the following in 500 words

(2 x 10 = 20)

Draw diagrams / flowcharts wherever necessary

5. Describe the structure of the Gametophyte with sporophyte of *Funaria*.

6.	Write the economic importance of Pteridophytes.
7.	Interpret the characteristic features of the family Rutaceae.
8.	Write the scientific name, family, useful parts, and uses of Cotton, Jute, and banana.
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 salient features of Bentham and Hooker's system of classification with classification chart.
10.	Discuss the megasporophyll of <i>Cycas</i> .
11.	Describe the characteristic features of the family Lamiaceae.
12.	Enumerate 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.	Compile the characteristic features of Fungi and Algae.
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.	Summarise the life cycle of <i>Cycas</i> .
16.	Assess the floral characters of <i>Oryza sativa</i> using floral parts diagrams, floral formula, and floral diagram and its economic importance.

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