



Date: 23-04-2024

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)	Bentham and Hooker's system of classification was described in _____ volumes of Genera Plantarum.	
b)	In <i>Ectocarpus</i> , the reserve food is a type of carbohydrate called _____.	
c)	The study of Algae is known as _____.	
d)	Wine is made from juice of grapes or other fruits by the process of _____.	
e)	An oil is a combination of fatty acids and _____.	
2.	State whether the following statements are TRUE or FALSE	
a)	<i>Puccinia graminis</i> is a heteroecious fungus.	
b)	<i>Lycopodium</i> is commonly known as club moss.	
c)	Bamboo belongs to the family Poaceae.	
d)	<i>Asafoetida</i> belongs to the family Apiaceae.	
e)	The biological source of basil is fruits.	

SECTION A - K2 (CO1)

	Answer ALL the Questions	(10 x 1 = 10)
3.	Choose the correct answer	
a)	<i>Puccinia graminis</i> causing a.black rust b.brown rust c.yellow rust d.white rust	
b)	In <i>Cycas</i> microsporophyll, the upper portion is pointed and sterile called a.sporophyll b.scale leaf c.fertile leaf d.apophysis	
c)	The book Genera plantarum published in the language a.Greek b.French c.Latin d.English	
d)	<i>Acalypha indica</i> belongs to the family a.Annonaceae b.Rutaceae c.Lamiaceae d.Euphorbiaceae	
e)	The scientific name for Turmeric is a. <i>Curcuma longa</i> b. <i>Syzygium aromaticum</i> c. <i>Shorea robusta</i> d. <i>Cannabis sativa</i>	
4.	Answer the following, each in about 50 words	
a)	State the name of two taxonomists who proposed the natural system of classification.	
b)	Define sporophyll.	
c)	Explain caryopsis.	
d)	Compare legitimate and illegitimate names.	
e)	Infer the biological source and active principle of <i>Catharanthus roseus</i> .	

SECTION B - K3 (CO2)

	Answer any TWO of the following in 500 words	(2 x 10 = 20)
	Draw diagrams / flowcharts wherever necessary	
5.	Sketch out the vegetative reproduction of <i>Funaria</i> .	
6.	Interpret the structure of the ovule of <i>Cycas</i> .	
7.	Summarise the Herbarium techniques.	
8.	Mention the scientific name, family, useful parts, and uses of green gram 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.	Compare the different types of steles of the genus <i>Lycopodium</i> .
10.	Analyze the lifecycle of <i>Ectocarpus</i> .
11.	Examine the floral characters of <i>Annona squamosa</i> along with a floral formula and floral diagram
12.	Differentiate spices with condiments and essential oils with edible oils, give examples.

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 coraloid root of <i>Cycas</i> .
14.	Explain the characteristic features of the family Euphorbiaceae and add a note on its economic importance.

SECTION E – K6 (CO5)

Answer any ONE of the following in 1000 words (1 x 20 = 20)

Draw diagrams / flowcharts wherever necessary

15.	Describe the life cycle of <i>Puccinia</i> .
16.	Summarise the scientific name, family, active principle, and uses of goose berry, ginger, nilavembu and tulsi.

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