

DM-003-001406

Seat No.

Bsc. (Sem. IV) (CBCS) Examination

March-2022

Botany: B-401

(Applied Botany)
(Old Course)

Faculty Code: 003 Subject Code: 001406

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

- **Instructions:** (1) This question paper three questions. All questions are compulsory.
 - (2) Write answers of all the questions in main answer sheet.
 - (3) Draw neat and labelled diagram wherever necessary.
 - (4) Figures to right side indicated full marks for the questions.
- 1 Answer the following objective types quotations: 20
 - (1) Define: Lenticels.
 - (2) Double fertilization was discovered by:
 - (3) Leaf abscission is caused by:
 - (4) Plants possess _____ hairs, which are capable of injecting substance into animals that cause irritation.
 - (5) Who discover gibbrellin?
 - (6) Give the full name of PEP?
 - (7) Minerals absorbed by root move toleaf throught?
 - (8) Loading of phloem means _____.

	(9)	CMS Means	
	(10)	ICAR Means	
	(11)	Define mass selections.	
	(12)	grafting is used to 'bridge' a diseased or	
		damaged area of a plant.	
	(13)	Biologist celebrate 5 th June as	
	(14)	The size of silt particle is	
	(15)	Water pollution by caused minamate disease.	
	(16)	The nutrient rich horizon of soil is	
	(17)	Plant having similar genotypes produced by plants breeding are called	
	(18)	The term antibiotic was coined by	
	(19)	The loss of genes from a gene pool is call	
	(20)	Write the size of typical herbarium sheet.	
2	(A)	Answering in brief: (Any Three)	06
	(1)	Write note on: Nectary gland.	
	(2)	Write briefly on the following: Cork.	
	(3)	Define micronutrients and macronutrients.	
	(4)	What are three main function of cytokinin?	
	(5)	Define the term "Polyploidy".	
	(6)	Give one difference between molecular pharming and molecular farming.	
2	(B)	Answering in details : (Any Three)	09
	(1)	Explain the processes of leaf abscission.	
	(2)	How the male gametes formed ?	
	(3)	Action mechanism of ethylene.	
	(4)	How Co_2 is fixed during C_4 cycle ?	
	(5)	Write a note : reasons for grafting.	
	(6)	Future of green revolution.	

- (C) Answering in details: (Any two)
 (1) Explain the processes of double fertilization in angiosperms.
 (2) What is periderm? Describe the method of its formation and its uses.
 (3) Discuss photosynthesis in C₃ plants.
 (4) Describe the theory of transport of expense substance.
 - (4) Describe the theory of transport of organic substance.
 - (5) Describe vegetative propagation.
- 3 (A) Answering in brief: (Any Three) 06
 - (1) Differentiate mor and mull humus.
 - (2) Explain Biomagnifications and Eutrophication.
 - (3) What is the purpose of anther culture?
 - (4) Write short note on : Transgenic plants.
 - (5) Define digestive glands.
 - (6) Describe soil profile.
- 3 (B) Answer in details : (Any Three) 09
 - (1) What is global warming? Write its effect on ecosystem.
 - (2) Explain in brief about components of soil.
 - (3) What is horticulture? Explain the division of horticulture.
 - (4) Explain how botanist works in the area of plant breeding.
 - (5) State the source of water pollution.
 - (6) Write on types of water erosion.

- (1) Explain twenty first century plant breeding.
- (2) Describe different method of soil conservation.
- (3) What is remote sensing? Write major application of remote sensing for the management of ecosystem.
- (4) Describe the various method of plant tissue culture.
- (5) What do you understand from the word floriculture? What are the economic flowers grown in south India?

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