

Seat No.

HQ-003-1012006

B. Sc. (Sem. II) (CBCS) Examination

April - 2023

Botany : Paper-B-201

(Angiosperm, Tools and Techniques in Botany, Biochemistry, Genetics)

Faculty Code : 003 Subject Code : 1012006

Time : $2\frac{1}{2}$ / Total Marks : 70

Instructions :

- (1) Write answers of all questions in main answer book.
- (2) Draw neat and labelled diagram wherever necessary.
- (3) Figures to the right side indicate full marks for the questions.

1	(a)	Objective type questions :			
		(1) Define : shrub.			
		(2) Dicot plant which type of venation is mainly found ?			
		(3) What is node ?			
		(4) Define : Stipules.			
	(b)	Answer in brief : (any 1 out of 2)	2		
		(1) Draw only labelled diagram – tap root.			
		(2) Write the function of leaf.			
	(c)	Answer in detail : (any 1 out of 2)	3		
		(1) Explain the types palmately compound leaf.			
		(2) Write the function of stem.			
	(d)	Write a note on : (any 1 out of 2)			
		(1) Explain the types of phyllotaxy.			
		(2) Explain the typical leaf.			

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2	(a)	Obje	ective type qu	estions :		4
		(1)			se inflorescence.	
		(2)	Define : Per	ianth.		
		(3)	Parts of typi	cal carpels know	'n as	
		(4)	Write the sy	mbols of androed	cium.	
	(b)	Answer in brief : (any 1 out of 2)			2	
		(1)	Give the leg	ume fruits.		
		(2)	Define the s	padix inflorescen	ice.	
	(c)	Answer in detail : (any 1 out of 2)			3	
		(1)	Short note of	n aggregate fruits	5.	
		(2)	Draw only la	abelled diagram -	- typical flower.	
	(d)	Writ	e a note on :	(any 1 out of 2)		5
		(1)	Describe the	types of placent	ation.	
		(2)	Explain the	types of racemos	e inflorescence.	
3	(a)	Obje	ective type qu	estions :		4
		(1)	Write the sc	ientific name of	Jasud.	
		(2)	Write the sci	ientific name of l	Bougainvillea.	
		(3)	Write the sc	ientific name of	Barmasi.	
		(4)	Write the set	ientific name of	Maize.	
	(b)	Ans	wer in brief :	(any 1 out of 2)		2
		(1)	Write the clareasons.	assification of m	alvaceae family withou	ıt
		(2)	Write the creasons.	lassification of	poaceae family withou	ıt
	(c)	Ans	wer in detail	: (any 1 out of 2	2)	3
		(1)	Explain the mirabilis jala		d draw floral diagram o	of
		(2)	Explain the Nerium indic		d draw floral diagram o	of
	(d)	Writ	e a note on :	(any 1 out of 2)		5
		(1)	Describe flo floral diagram		f malvaceae family wit	h
		(2)	Describe flor	ral characters of p	oaceae family with flora	al
	0.00	10122	diagram.	2		
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	4	(a)	Objective type questions :			
			(1) Write the full form of SEM.			
			(2) Chromatography is discovered by			
			(3) Write the full form of TEM.			
			(4) What is the function of eye piece in light microscope ?			
		(b) Answer in brief : (any 1 out of 2)				
			(1) Write the principles of chromatography.			
			(2) Describe the principles of colorimeter.			
		(c)	Answer in detail : (any 1 out of 2)	3		
			(1) Write down steps of measurement of pH.			
			(2) Give three differences between light microscope and electron microscope.			
		(d)	Write a note on : (any 1 out of 2)	5		
			(1) Explain the SEM.			
			(2) Describe the step and application of tissue culture.			
	5	(a)	Objective type questions :	4		
			(1) Write full form of RNA.			
			(2) Which type of main BOND found in protein structure ?			
			(3) Write any two name of amino acid.			
			(4) Who is the father of genetic ?			
		(b)	Answer in brief : (any 1 out of 2)	2		
			(1) Give the three characters of amino acids.			
			(2) Write the two function of enzyme.			
		(c)	Answer in detail : (any 1 out of 2)	3		
			(1) Write the pyrimidine type of nitrogen base.			
			(2) Draw only structure of DNA.			
		(d)	Write a note on : (any 1 out of 2)	5		
			(1) Explain the dihybrid experiment.			
			(2) Explain the mechanism of enzymes.			

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