

## RY-003-1016047

Seat No.

## B. Sc. (Sem. VI) (CBCS) Examination

March - 2019

Botany: Paper - B - 602

(Plant Physiology, Biochemistry, Biostatistic, Microbiology and Biodiversity) (New Course)

Faculty Code: 003

Subject Code: 1016047

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Time: 2	$\frac{1}{2}$ H	lours]			[T]	'otal	Marks	: <b>70</b>
Instructi	ons	: (1) (2) (3)	Answer was	the right si	eat and l			
1 (A)	Ansv (1) (2) (3) (4)	First p Optim is Leaf s Mentio	part which contains temperate senescence is contrue or f	Objective ty comes out of rature for is delayed b false: abscis m mature c	a seed is seed g  by: ic acid v	s germi vas i	ination	4
(B)	Ansv (1) (2)	Write	only name of the physiol	y <b>One</b> out f different pl <b>OR</b> logical funct	nases of g			2
(C)	Ansv (1)	Descri		ny <b>One</b> out se phosphate <b>OR</b> - Auxin				3
RY-003-10	` ′	_		1			[ Con	td

	(D)	Write a note on: (Any One out of Two)	5					
		(1) Explain in detail - Gibberellins						
		$\mathbf{OR}$						
		(2) Give information about the factors affecting germination.						
2	(A)	Answer the following Objective type questions:	4					
		(1) Write the general formula of monosaccharides.						
		(2) enzymes bring hydrolysis of various compounds						
		(3) Write only one example of contractile protein.						
		(4) Define complex lipid:						
2	(B)	Answer in brief: (Any One out of Two)	2					
		(1) Write a note on - Conjugated protein.						
		$\mathbf{OR}$						
		(2) Write a note on - Mucopolysaccharides.						
	(C)	Answer in detail : (Any One out of Two)	3					
		(1) Write a note on - Enzyme inhibition.						
		$\mathbf{OR}$						
		(2) Explain primary and tertiary structure of protein.						
	(D)	Write a note on: (Any One out of Two)	5					
		(1) Explain classification of monosaccharides.						
		$\mathbf{OR}$						
		(2) Describe function of phospholipid.						
3	(A)	Answer the following Objective type questions:						
		(1) What is sampling unit?						
		(2) Write any two demerits of mean.						
		(3) Nth root of the product of n observation is known as						

(B)	Ans	wer	in ł	rief	• 6	Anv	One	• O11	t of	Two	n)			2
(B)	(1)										$\mathbf{s}$			
		Fin	d ou	at tl	ne n	node	of	this	seri	es.				
						O	$\mathbf{R}$							
	(2)	Wri	te t	he i	meri	ts o	f me	ean.						
(C)	Ans	wer	in (	letai	1:	(Any	On	e o	ut o	f Tv	vo)			3
	(1)	Fin	d ou	ıt tl	ie a	rith	meti	c m	ean	fron	ı da	ta.		
Rate o Re <i>spii</i>		2	16	20	30	39	40	45	49	50	65	70	79	80
Frequ	iency	3	4	7	7	1	3	5	1	2	2	5	1	2
						O	R				•			
	(2)	Des	crib	e -	clus	ter s	samı	oling	ζ.					
(D) Write a note on (Any One out of Two)							5							
	(1)	Fin	d ou	at S	D o	f the	e fol	lowi	ng (	lata	:			
		Size	of i	tem	10	11	12	13	14	15	16	5		
		Fre	quei	ncy	2	7	11	15	10	4	1			
					•	O	R	•	·	•	•	•		
	(2) Chlorophyll percentage g/100 gm of leaf of Ocimum was recorded as 23, 22, 20, 24, 16, 17, 18, 19, 27 and 21.													
		Cal	cula	te t	he s	stano	lard	dev	iatio	n.				
(A)	Ans	wer	the	follo	owin	ıg O	bjec1	tive	type	qu	estic	ns :		4
	(1)	Exp	lain	the	e tei	rm -	$\mathrm{Ch}$	romo	opho	$\operatorname{res}$ .				
	(2)	Wh	at i	s th	e ro	le o	f ag	ar.						
	(3)	Exp	lain	the	e te	rm -	Ind	licat	or n	redia	a.			
	(4)	Giv	e th	ie ez	xam	ple	of se	emi	synt	heti	c me	edia.		
(B)	Ans	wer	in k	orief	: (4	Any	One	e ou	t of	Two	o)			2
	(1) Give information about gram staining method.													
						_	$\mathbf{R}$							
	(2)	Exp	lain	ı : I	Diffe	rent	ial r	nedi	a.					
000 1	0100	47 1					0							4.1

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	(C)	Answer in detail: (Any One out of Two)	3
		(1) Write a note on - structure of ecoli.	
		$\mathbf{OR}$	
		(2) Discuss the method of sterilization in microbiology.	
	(D)	Write a note on (Any One out of Two)	5
		(1) Explain - structure of T4 bacteriophages	
		$\mathbf{OR}$	
		(2) What is pure culture? Describe the pour plate and spread plate method.	
5	(A)	Answer the following Objective type questions:	4
		(1) Biodiversity termed was coined by	
		(2) refers to the diversity on the smallest scale.	
		(3) Where Sunderbans is located?	
		(4) Which wild life sanctuaries is located in Rajasthan?	
	(B)	Answer in brief: (Any One out of Two)	2
		(1) Write a note on - $\alpha$ - diversity	
		$\mathbf{OR}$	
		(2) Give information on species diversity.	
	(C)	Answer in detail : (Any One out of Two)	3
		(1) Write the silent features of National parks OR	
		(2) Write a note on - NBPGR	
	(D)	Write a note on: (Any One out of Two)	5
		(1) Describe different zones of biosphere reserves.	
		OR	
		(2) Explain in detail - wild life sanctuary	