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B-92-2019

FACULTY OF SCIENCE

B.Sc. (First Year) (Second Semester) EXAMINATION MARCH/APRIL, 2019

(CBCS/CGPA Pattern)

BOTANY

Paper-IV

(Genetics and Plant Breeding)

(MCQ & Theory)

(Friday, 29-03-2019) Time—2 Hours				Time: 10.00 a.m. to 12.00 noon		
				Maximum Marks—40		
N.B. :—	(i)	Attempt All questions.				
	(ii)	All questions carry eq	ual marks.			
	(iii)	Draw well labelled dia	agrams where	ever necessary.		
			MCQ			
1. (i)	M	lendel's experiments were	carried on	plants.		
	(a) Pigeon Pea	(b)	Chick pea		
	(c) Wheat	(d)	Garden pea		
(ii)	The tendency of offspring to differ from parent is called					
	(a) Heredity	(<i>b</i>)	Variation		
	c) Inheritance	(d)	Resemblance		
(iii) P	Phenotypic ratio of dihybrid cross is				
	(a) 3 : 1	(<i>b</i>)	9:7		
	$\langle c \rangle$	9:3:3:1	(d)	1:1		
	Y A. Y					

P.T.O.

WT		(3)	B—92—2019		
		Theory			
2.	Descr	ibe supplementary gene action with suitable example.	10		
		Or Or			
	Write	notes on:			
	(a)	Sex determination in birds			
	(<i>b</i>)	Hexaploid wheat.			
3.	Descr	ibe sex linked inheritance in man with reference to ha	emophilia.		
		Or			
	Write	notes on:	4) 4) 4) 4) 4) 4)		
	(a)	Pureline selection			
	(<i>b</i>)	Bagging in hybridization.			
4.	What is mutational breeding? Describe procedure and application of mutational				
	breed	ing.	10		
		Or Control of the Con			
	Write	notes on:			
	(a)	CMS—Cytoplasmic Male Sterility			
E.M.	(b)	Application of hybridization.			