This question paper contains 3 printed pages]

## BF-72-2016

## FACULTY OF SCIENCE

## B.Sc. (First Year) (Second Semester) EXAMINATION OCTOBER/NOVEMBER, 2016

**BOTANY** 

Paper IV

(Genetics and Plant Breeding)

(MCQ + Theory)

(Thursday, 20-10-2016) <i>Time</i> —2 <i>Hours</i>				Ti	Time: 10.00 a.m. to 12.00 noon	
					<i>Maximum Marks</i> —10+30=40	
N.B.	:—( <i>i</i> )	Attempt $All$ questions.				
	(ii)	All questions carry equal marks.				
	(iii)	Draw well labelled diagrams wherever necessary.				
			MCQ			
1.	Multiple Choice Questions (1-10):					
	(1)	rediscovered work of Mendel.				
		(a)	Hugo de Vries	( <i>b</i> )	Carl Correns	
		(c)	Eric Von Tschermark	(d)	All of these	
	(2)	The characters of parents expressed in F1 generation is called				
		(a)	Dominant	(b)	Recessive	
		(c)	Cohesive	(d)	Adhesive	
	(3)	The cross between F1 hybrid and recessive parent is				
		cross	5.			
		(a)	Monohybrid	( <i>b</i> )	Dihybrid	
		(c)	Test	(d)	All of these	
	(4)	Haemophilia is chromosome linked character.				
		(a)	X	( <i>b</i> )	Y	
		(c)	XY	(d)	All of these	

WT (3) BF—72—2016

3. Describe sex-linked inheritance in drosophila with reference to eye colour.

Or

Write notes on:

- (i) Clonal selection
- (ii) Heterosis.
- 4. Describe male sterility in plants.

Or

Write notes on:

- (i) Pureline selection
- (ii) Acclimatization.