## B.Sc. (Part-II) Semester-IV Examination BOTANY

(Cell Biology, Genetics and Biochemistry)

Time:	Three	Hours]	[Maximum Marks: 80
Note :— (1) Th		There are Seven questions in all.	
	(2)	(2) Q. No. 1 is compulsory and carries 8 marks.	
	(3)	Q. No. 2 to 7 carry equal marks.	
	(4) Draw well labelled diagrams wherever necessary.		ary.
1. (A	A) Fill in the blanks:		
	(i)	) Mendel performed Hybridization experiments in plants.	
	(ii)	is called as power house of a	cell. ½
	(iii)	Vacuole in the plant cell is bound by a memb	orane called as ½
	(iv)	Phenotypic ratio of monohybrid cross is	
(B)	) Choose the correct alternative (MCQs):		
	(v)	(v) Chromosome ends are called as	
		(a) Satellite (b) Te	lomere
		(c) Centromere (d) Ki	netochore
	(vi)	The protein part of enzyme is	1/2
		(a) Vitamins (b) I	Ioloenzyme
		(b) Apoenzyme (d) P	Prosthetic group
	(vii) The loss of chromosome segment is known as:		S: 1/2
		(a) Duplication (b) I	Deletion
		(c) Inversion (d) T	ranslocation
	(viii)The site of photosynthesis in plant cell is :		1/2
		(a) Mitochondria (b) (	Golgi Complex
		(c) Chloroplast (d) N	Nucleus
(C	(C) Answer in <b>one</b> sentence:		
	(ix)	Define Test Cross	1
	(x)	Define Polyploidy	a 1
	(xi)	Give one example of Disaccharides	1
	(xii)	Define linkage.	eg " 1
2. Explain:			
(a)	Fun	ctions of cell wall.	4
(b)	) Ultr	astructure of Nuclear membrane.	4
(c)	(c) Fluid mosaic model of plasma membrane.		4
OR			
VRC-	5788		(Contd.)

YBC-15288