[Thi	s question paper con	tains 4 printed page	s.]		
935	Your Roll No				
	B.Sc.	. (Hons.) / II	С		
	BOTA	NY - Paper V			
(Economic Botany and Crop Improvement)					
(Admissions of 2004 and onwards)					
Time	: 3 Hours	Maximum	Marks : 38		
	·	No. on the top immedi this question paper.)	iately		
	Attempt six questions in all including Q. No. 1 which is compulsory.  Attempt all parts of a question together.				
1.	Give the botanical name and family of any eight of the following:				
	(i) Castor	(ii) Vanilla			
	(iii) Cluster bean	(iv) Sal			
	(v) Cardamom	(vi) Cassava			

(vii) Bidi Leaf (viii) Barley

(ix) Foxglove (x) Coffee

(1×8=8) P.T.O.

2.	Differentiate between any three of the following:		
	(i) Mass selection and Pure line selection		
	(ii) Indica Rice and Japonica Rice		
	(iii) Hard and soft wood		
	(iv) Primary and secondary centres of origin (3×2=6)		
3.	Write short notes on any three of the following:		
	(i) Retting		
	(ii) Nobilization		
	(iii) Nutritional importance of Potato		
	(iv) Properties of ring porous wood		
	(v) Processing of rubber $(3\times2=6)$		
4.	Draw well labeled diagrams of any three of the following:		
	(i) T.S Citrus/Orange fruit		
	(ii) L.S Clove bud		

 $(3 \times 2 = 6)$ 

(iii) V.S Tea leaf

(iv) L.S. Wheat grain

5.	Define in brief any six of the following:		
	(i) Heterosis		
	(ii) Fodder crops		
	(iii) Mixed cropping		
	(iv) Biocides		
	(v) Parboiling		
	(vi) Mixed cropping		
	(vii) Tetraploid cotton		
	(viii) Plywood		
	(ix) Masticatory substances	(1×6=6)	
6.	(a) Name the research centres of India associated with the improvement of sugarcane, rice and fodder crops? (1.5)		
	(b) Expand the acronyms (any three):		
	(i) NBRI (ii) IRRI		
	(iii) CTRI (iv) ICRISAT		
	(v) CAZRI	(1×3=3)	
	(c) Why are poppy seeds considered consumption?	good for (1.5)	

- (a) Green revolution brought a change in cultivation practices and improved the yield and quality of wheat crop. Justify the statement.
  - (b) What are megadiversity centres? Describe the 'Centres of Origin' of crop plants in light of Vavilov's concepts? (3)
- 8. (a) Mention the names of the principle states of India producing following:
  - (i) Groundnut (ii) Teak
  - (iii) Cotton (iv) Mango  $(0.5\times4=2)$
  - (b) Discuss in brief the harmful effects of tobacco on human health. (2)
  - (c) Discuss the processing methods of fatty oils.

(2)