Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

		B.E. Sem-IV Examination June- 2010		
Date:	Subject code: 141404 Subject Name: Technology of Food Grains te: 19 / 06 /2010 Total Marks: 70			
Instr	uct	ions:		
	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)		07 07	
Q.2	(a)	of speciality wheat flour.	07	
	(b)	<ol> <li>Explain the following.         <ol> <li>Hysteresis</li> <li>Hydrothermal</li> <li>Terminal velocity</li> <li>Bleaching</li> </ol> </li> <li>Explain mechanical oil extraction method.         <ol> <li>OR</li> </ol> </li> </ol>	04	
	(b)		3.5 3.5	
Q.3	(a)	Enlist various unit operations of modern roller wheat flour mill and	07	
	(b)	explain in detail about the different types of rollers used.	07	
		OR		
Q.3	(a) (b)	<ul><li>i. Supply chain of grain.</li><li>ii. Oil seed preparation before oil extraction.</li></ul>	07 07	
Q.4	(a)	Draw the morphological structure of corn showing different parts. Enlist various commercial products which can be prepared from corn.	07	
	<b>(b)</b>	What is parboiling? Explain the different properties of parboiled rice.	<b>07</b>	

OR

**07** 

Q.4	(a)	Discuss in detail.	07
		i. Commercial pulse milling.	
		ii. Byproducts from cake.	
Q.4	<b>(b)</b>	Explain the following.	07
	` ´	i. Process of preparation of groundnut butter.	
		ii. Chemical composition of grain.	
Q.5	(a)	Explain in detail the various unit operations of modern rice mill and state the importance of return paddy.	07
	(b)	Write short notes on following	07
	( )	1. Storage of paddy and rice 2. By products of rice mill	
		OR	
Q.5	(a)	Write short notes.	07
	` '	i. Refining of oil ii. Wet and dry milling of pulses.	
	(b)	Describe in detail modern CFTRI method of pulse milling with flow diagram.	07

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