Seat	<i>No.:</i>		Enrolment No
		GUJARAT TECHNOLOGICAL	
		BE- IV <sup>th</sup> SEMESTER-EXAMINATION	N – MAY/JUNE- 2012
Sub	ject (	code:141404	Date: 29/05/2012
Sub	ject l	Name: Technology of Grains	
Time: 10:30 am – 01:00 pm Total mark			Total marks: 70
	ructi	<del>-</del>	
1. At	tempt	all questions.	
		uitable assumptions wherever necessary.	
3. Fig	gures	to the right indicate full marks.	
Q.1	(a)	Discuss in detail the dry milling process of corn	milling. 07
Q.1	(b)	Explain various properties of grain in brief.	07 07
	(0)	2p.u various properties of grain in cite.	,
Q.2	(a)	Explain mechanical extraction of oil.	07
	(b)		07
		1. Polishing of rice.	
		2. Pneumatic bran separation. <b>OR</b>	
	(b)	Explain the characteristic of whole wheat flour.	07
	( )	1	
Q.3	(a)	Briefly explain the various conventional method	
	(b)	Enlist continuous methods of paddy drying and	explain any one in detail. 07
0.2	(a)	OR	07
Q.3	(a) (b)	• • • • • • • • • • • • • • • • • • • •	
	(0)	(i) Gota (v) Solvent extraction	
		(ii) Refining (vi) Deh	
			treatment
		(iv) Parboiling (viii) Th	ermal property
Q.4	(a)	Answer the following.	08
	(a)	(i) Give composition of grain.	
		(ii) What is hydrothermal treatment?	
		(iii)What is separation process?	
		(iv) What is hysteresis?	
	(b)	Discuss protein isolate preparation process with	flow diagram. 06
Q.4	(a)	OR  Draw the structure of paddy kernel and briefly e	explain the importance of each 07
<b>~</b> ··	(4)	part.	in portune of each
	(b)	What is return paddy? Explain the compartment	type separator used for 07
		paddy.	
Q.5	(a)	Discuss the following.	07
	(a)	(i) Byproducts of corn milling.	07
		(ii) Cleaning of wheat.	
	(b)	What is turbo milling? Explain the important fe	atures of wheat turbo milling 07
		industry.	
0.5	(a)	OR Discuss CETPI method of pulse milling	0.5
Q.5	(a) (b)	Discuss CFTRI method of pulse milling.  Describe machinery used in oil extraction and p	ulse milling. 05
	(c)	Explain hydrogenation process of oil.	
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