Enrolment No.____

Seat No.: _____

•	ect C	GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019 Code: 2151406 Date: 06/06/20	19	
Subject Name: Technology of Grains Fime: 02:30 PM TO 05:00 PM Instructions: Total Marks:				
	2. I	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	1 0	03	
	(b)	utilization of each part. What is scalping? State the significance of scalping in milling of grains.	04	
	(c)	Explain the significance of :i) Determination of physico-chemical properties of food grainsii) Supply chain of food grains	07	
Q.2	(a)	Explain the working of 'Screw Press' used for extraction of oil from oilseeds.	03	
	(b) (c)	Explain the sella process of parboiling. State the principle involved in cracking of rice and explain the remedial measures to avoid the cracking of rice during milling.	04 07	
	(c)	OR State the importance of rice polishing and explain the working mechanism of cone polisher with neat labeled diagram.	07	
Q.3	(a) (b)		03 04	
	(c)	Define the term 'Milling of pulses' and explain the dry and wet method of pulse milling.	07	
		OR		
Q.3	(a)	traditional methods.	03	
	(b)	Explain the various factors affecting milling characteristics of pulses	04	
	(c)	Explain the flow diagram of CFTRI method of milling of pulses.	07	



Q.4	(a)	paddy.	03
	(b)	•	04
	(c)	Enlist the groups of impurities present in crude oil and describe the steps involved for their removal.	07
		OR	
Q.4	(a)	Distinguish between whole wheat flour and refined wheat flour.	03
	(b)	Discuss in detail the nutritional value of cereals and pulses.	04
	(c)	Write a short notes on: i) Soybean processing ii) Utilization of defatted oilseed cake	07
Q.5	(a)	Enlist the different species of wheat with their importance.	03
	(b)	Explain the working mechanism of beall degermer with neat labelled diagram.	04
	(c)	Explain the wet milling process for the extraction of corn starch.	07
		OR	
Q.5	(a) (b)	Enlist the by-products of wheat milling industry and state its utilization. Discuss the different applications of corn and its products.	03 04
	(c)	Write short notes on:	07
		1. Bleaching of wheat flour	
		2. Enrichment of wheat flour ***********************************	