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# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE- SEMESTER-V (NEW) EXAMINATION - WINTER 2020** 

Subject Code:3151406 Date:29/01/2021

**Subject Name: Technology of Grains** 

Time:10:30 AM TO 12:30 PM Total Marks: 56

### **Instructions:**

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	What are the objectives of milling of pulses? Explain the criteria to decide the right stage of paddy harvesting. What is scalping? Explain the scalping process of paddy with neat sketch of scalper.	03 04 07
Q.2	(a)	What are the conditions for the safe storage of rice?	03
	<b>(b)</b>	What is protein isolate? Give the flow chart of preparation of protein isolate.	04
	(c)	Explain the dry and wet method of pulse milling.	07
Q.3	(a)	Explain the significance of determination of physico-chemical properties of food grains	03
	<b>(b)</b>	Write short note on 'Soybean processing'	04
	(c)	Enlist the pre-treatments required to oilseeds prior to oil extraction and explain any four of them.	07
Q.4	(a)	Write the nutritional significance of pulses.	03
	<b>(b)</b>	Explain the various factors affecting milling characteristics of pulses.	04
	(c)	List out the groups of impurities present in crude oil and describe briefly the steps involved for their removal.	07
Q.5	(a)	State the different methods of dhal polishing.	03
	(b) (c)	State the principle and process of preparation of hydrogenated fat. State the objectives of dry milling of corn and explain the process in detail.	04 07
Q.6	(a) (b)	Explain the term 'Scratching/pitting of pulses' Classify the methods of oil extraction and discuss any one method of oil extraction.	03 04
	(c)	Draw the morphological structure of wheat and explain the importance of each part.	07
<b>Q.7</b>	(a)	Explain the nature of dent variety of corn.	03
	<b>(b)</b>	What is parboiling of paddy? Explain any one traditional method of paddy parboiling.	04
	(c)	Explain the milling of rice using disc sheller with neat sketch.	07



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<b>Q.8</b>	(a)	State the objectives of corn steeping.	03
	<b>(b)</b>	Enlist the various unit operations of modern rice milling with their	04
		functions.	
	(c)	Explain the post milling treatment of wheat flour.	07

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