## KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2012 Admission V<sup>th</sup> Semester Final Examination- January-2015

Cat. No: Fdpr.3103 Title:Oil Chemistry	and Technology (2+1)	Marks: 80 Time: 3 hours
Answer the fo	llowing	
I Fill up the b	lanks	(5× 1=5)
1 hydroxide.	is saponifying the FFA presents with a	aqueous solution of sodium
	is obtained from	
	is emulsion of	
4. Small quan	tity of material is crystallized and known as	removes from edible oil by
5. Butter fat h	as% of saturated fatty acids.	
II Explain the	following	(5× 1=5)
1. Differentia	te fat and oil.	
2. Define 'Free	fatty acids'.	
3. Differentia	te immersion and percolation extraction	n of oil.
4. Why Hydrog	genation is needed?	
5. Explain the	plasticizing process.	
III Answer of	ny TEN questions	(10×3=30)
1. Explain FFA.		
*	onification value?	
3. Discuss este		
4. Write a not	e on Ghani.	
5. Write a not	e on packed extraction tower.	
	em of leaching.	
	rifugal extractor principle.	
8. Write a not	180	
9. Explain fat		
	ortance of iodine value.	

11. Explain control of rancidity in oil.12. Differentiate oil and essential oil.

## IV Answer any SIX questions

 $(6 \times 5 = 30)$ 

- 1. Discuss in detail about chemical properties of oil.
- 2. Discuss cold and hot pressing of oil.
- 3. Explain multi stage leaching extraction of oil.
- 4. Discuss with neat working of oil expeller.
- 5. Write a note on oil refining.
- 6. Discuss nutritional aspects of oil.
- 7. Explain in detail about quality standards of oil.
- 8. Explain methods used for essential oil extraction.

## V Answer any ONE question

 $(1 \times 10 = 10)$ 

- 1. Discus in detail about physical and chemical properties of oil.
- 2. Write a detailed note on machineries used in oil milling process.

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