

B.Tech. Fourth Semester (Food, Pulp & Paper, Oil & Paint & Petro Chem.) (CGS)

11015 : Oil & Paint Technology-I 4 OT 02

P. Pages: 2 Time: Three Hours



AW - 3078

Max. Marks: 80

	Notes: 1. Answer three question from Section A and three question from Section B. 2. Due credit will be given to neatness and adequate dimensions. 3. Discuss the reaction, mechanism wherever necessary. 4. Use of pen Blue/Black ink/refill only for writing the answer book.	
	SECTION - A	
1.	Give an account of systematic name, structure, sources & uses of following fatty acids.	13
	i) Oleic acid ii) Stearic acid	
	iii) Ricinoleic acid iv) Linoleic acid	
	v) Linolenic acid	
	OR	
2.	Discuss about the non glyceride components of oils & fats w.r.t.	13
	a) Having nutritional significance.	
	b) Components affecting stability.	
3.	Define Acid value, also state their significance. How will you determine acid value in your laboratory? What precautions will you take?	13
	OR	
4.	Define oils & fats, discuss the nutritional function of oils & fats in detail.	13
5.	Give an account of isomerisation in mixed triglyceride in detail.	14
	OR	
6.	Discuss about any two.	14
	i) PV value	
	ii) Polymerisation reaction.	
	iii) Industrial uses of oil & fats.	



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7.	Give an accounts of natural & synthetic antioxidants with their structure in detail.	13
	OR	
8.	Discuss the Baily's classification of oil & fats in detail. Discuss about oleic linoleic group with examples.	13
9,	Define the term Rancidity of oils & fats. Describe the mechanism of autoxidation.	13
	OR	
10.	How will you check the adulteration in oils & fats by -	13
	i) Baudouin test	
	ii) Halphen test	
	iii) Bellers turbidity test	
	iv) Mineral oil test	
11.	Give an account of ISI specification of -	14
	i) Vegetable oils	
**	ii) Oil seeds	
	iii) Vanaspati	
	iv) DOC	
	OR	
12.	Discuss about any two.	14
	i) Atmospheric Oxidation	
	ii) Saturated fatty acids	
	iii) Phospholipids	
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