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(b)	Cho	ose correct alternative :	(q)	Give an account of:	
	(i)	Percentage of P ₂ O ₅ in superphosphate is:		(i) Iodine value	
	w			(ii) Ester value. 6	
		(a) 16-20 (b) 20-25		UNIT-IV	
		(c) 5-10 (d) 35-40 8.	(a)	Explain the manufacturing process of isopropar	
	(ii)	The raw materials for manufacturing of		with diagram. 4	
		ammonium phosphate are ammonia and	(b)	Give the uses of:	
		(a) Nitric acid		(i) Vinyl acetate &	
		(b) Phosphoric acid		(ii) Acetylene. 4	
			(c)	Explain the process of chlori-nation of methane with	
		(c) Hydrochloric acid		diagram. 4	
		(d) Acetic acid.		OR	
	(iii)	Which of the following is not a extraction method 9.	(p)	Explain Fischer Tropsch synthesis with example. 4	
		of essential oils:	(q)		
		(a) Steam distillation		diagram. 4	
		(b) Solvent extraction	(r)	Give the uses of:	
				(i) Vinyl chloride and	
		(c) Expression		(ii) Isopropanol.	
		(d) Absorption.		UNIT-V	
	(iv)	In the manufacturing of Calcium Carbide the	10. (a)	Give the uses of following industrial gases:	
		two raw materials used are Quick Lime		(i) Oxygen	
		and		(ii) Nitrogen	
		(a) Oxygen (b) Carbon		(iii) CO ₂ .	
		(c) Nitrogen (d) Hydrogen. 2			
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	(c)	Answer in one sentence:	
		(i) Define depreciation.	
		(ii) Define interest.	
		(iii) Which essential oil is extracted from pepermint?	om
		(iv) Which catalyst is used for the hydrogenation vegetable oil?	of 4
		UNIT-I	
2.	(a)	Explain the manufacturing of ammonium sulphate w	ith
		flow diagram.	4
	Give the raw materials and reactions involved in t		
		manufacturing of ammonia with major engineeri problems.	ng 4
	(-Š		
	(c)	Explain the manufacturing process of ammonium nitra with flow diagram.	ate 4
			4
		OR	
3.	(p)	Explain the manufacturing process of chlorine wi flow diagram.	ith 4
	(q)	Give the raw materials, chemical reactions and maj engineering problems involved in the manufacturing	

of ammonium phosphate.

flow diagram.

Explain the manufacturing process of nitric acid with

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(r)

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UNIT-II

		OTATA AV	
4.	(a)	Explain the manufacturing process of soda a Solvay Process with flow diagrams.	sh by 4
	(b)	Give the raw materials and major engineering pro involved in the manufacturing of sulphuric ac	blems id. 4
	(c)	Explain the manufacturing process of urea with diagram.	h flow 4
		OR	
5.	(p)	Explain the manufacturing process of calcium of with diagram.	arbide 4
	(q)	Draw the flow sheet diagram for manufacture hydro chloric acid.	ring of 4
	(r)	Explain the manufacturing process of lime wirdiagram.	th flow 4
		UNIT-III	
6.	(a)	Explain solvent extraction method for extrac	tion of
	(b)	Give an account of:	
		(i) Saponification value	
		(ii) Acid value.	6
		OR	
7.	(p)) Give the uses of :	
	-	(i) Turpentine	
		(ii) Camphor	
		(iii) Menthol.	
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