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3 Hours / 100 Marks Seat No. Instructions: (1) All questions are compulsory. (2) Illustrate your answers with neat sketches wherever necessary. (3) Figures to the **right** indicate **full** marks. (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall. Marks 1. A) Attempt any six: 12 i) Define saponification value of oil. ii) Define pulp. Name the methods for the production of pulp. iii) Define fermentation. State any one application of fermentation. iv) Give any two uses of acetic acid. v) State the methods of polymerisation. vi) State the significance of acid value. vii) Define iodine value of oil. B) Attempt any two: 8 i) Draw flow sheet for the manufacturing of paint. ii) Differentiate between soap and detergent. iii) Write the four uses of polystyrene. 2. Attempt any four of the following: 16 i) List industrial uses of alcohol. ii) List the raw materials required for the manufacturing of paint along with their purposes. iii) Draw sulphite process for pulp manufacturing. iv) Describe the manufacturing of phenol by toluene oxidation process. v) Draw flow sheet for manufacturing of vinyl chloride.

vi) Compare between hot and cold process for manufacturing of soap.

Marks	

3.	Att	tempt any four of the following:	16
	i)	Describe the manufacturing of ethyl alcohol from molasses.	
	ii)	Differentiate between lacquers and varnishes.	
	iii)	List raw materials for the manufacturing of paper. Name the additives are used to improve quality of paper.	
	iv)	Describe the low pressure process for manufacture of polyethylene.	
	v)	Write raw materials and reactions involved in manufacture of phenol from benzene.	
	vi)	Draw the flow sheet for the manufacturing of rayon.	
4.	Att	tempt any four of the following:	16
	i)	Describe the cleansing action of soaps.	
	ii)	Describe the hydrogenation of oil with neat diagram.	
	iii)	Describe the oxo-process for the manufacturing of butanol.	
	iv)	Write the constituents of white, black, blue and red pigments.	
	v)	Give types of polymers with examples.	
	vi)	Draw the flow sheet for the manufacturing of polystyrene.	
5.	Att	tempt any two of the following:	16
	i)	Describe the manufacturing of phenol from cumene with neat flow diagram.	
	ii)	Describe the manufacturing of acetic acid by acetaldehyde with neat flow diagram.	
	iii)	Explain the extraction of oil with neat flow diagram.	
6.	Att	tempt any two of the following:	16
	i)	Describe manufacturing of paper by kraft process with neat flow diagram.	
	ii)	Describe the manufacturing of polyester with neat flow diagram.	
	iii)	Describe the manufacturing of phenol by benzene sulfonate process.	