22410

21819

3 Hours / 70 Marks

Seat No.				

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following:

10

- a) List any four industrial applications of Ethyl Acetate.
- b) Write the reactions involved in manufacturing of Alcohol by molasses.
- c) Give the applications of oil.
- d) Give the names of raw material used for manufacturing of polycarbonate.
- e) List raw materials used for manufacturing of pulp.
- Give industrial applications of polyethylene. f)
- List manufacturing processes of Phenol.

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		N	Iarks
2.		Attempt any THREE of the following:	12
	a)	Explain the roles of constituents used in paints.	
	b)	Draw process flow diagram for manufacturing of polyvinylchloride.	
	c)	Write the reactions involved in manufacturing of phenol by cumene process.	
	d)	Explain process flow diagram of hydrogenation of oil.	
3.		Attempt any THREE of the following:	12
	a)	Draw process flow diagram for manufacturing of Acetaldehyde.	
	b)	Explain manufacturing of detergents.	
	c)	Differentiate between paint and varnish.	
	d)	Explain manufacturing process of pulp.	
4.		Attempt any THREE of the following:	12
	a)	Explain manufacturing process of soap.	
	b)	Give name of four paints manufacturing industries with their location.	
	c)	Give reactions involved in manufacturing of polyester.	
	d)	Draw process flow diagram for manufacture of phenol by toulene.	
	e)	Draw a process flow diagram of Phenol by Rasching process.	
5.		Attempt any TWO of the following:	12
	a)	Describe manufacturing process of pulp.	
	b)	Explain manufacturing of alcohol by corn using process flow sheet.	
	c)	Draw the process flow sheet of polyethylene with reactions.	

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6. Attempt any <u>TWO</u> of the following:

12

- a) Give industrial applications of Butanol. Draw process block diagram for manufacture of Butanol.
- b) Give industrial applications of PVC and name of PVC manufacturing industries (four names).
- c) Give industrial applications and name of manufacturing industries for phenol.