## 22452

	2223 Ho		/ 70	Marks	Seat	No.								
Instructions – (			- (1)	All Questions	are Comp	oulsor	y.							
			(2)	Answer each i	next main	Que	stio	n c	on a	n ne	ew	pag	ge.	
			(3)	Illustrate your necessary.	answers	with	nea	t sl	cetc	hes	wl	nere	ever	
				Figures to the right indicate full marks.										
(				Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.										
													Ma	rks
1.		Attem	ipt any	<b><u>FIVE</u></b> of the	following	•								10
	a)	Enlist	any fo	ur types of adh	nesive.									
	b)	identit	C 1:.	ng method use	C									
		lucitu	ly seam	ing method use	for									
			Milk pc	C	for									
		i) 1	-	ouch	Ior									
	c)	i) ii)	Milk po Plastic :	ouch	Ior									
	c)	i) 1 ii) 1 Sugge	Milk po Plastic :	ouch folder ing method for	Ior									

- d) State any two applications of in-mould decorating.
- e) Enlist any two metallization techniques used with plastics.
- f) State any four plastics used as powder coating material.
- g) State any two applications of powder coating.

## 2. Attempt any THREE of the following: 12 a) Elaborate filing as a method of finishing plastics. b) Describe roll coater as a method of adhesive application. c) If PVC conduit pipes are to be joined suggest the method for same and explain it. d) Elaborate shrink fitting and snap fitting with plastic parts. 3. Attempt any THREE of the following: 12 a) State principal consideration and used guidelines for machining tool geometry. b) Draw neat sketches of any four types of adhesive joints. c) Identify and explain the welding method used for making LED bulb assembly. d) Suggest and explain the joining method and material if a plastic lunch box having integral lid is to be made. 4. Attempt any THREE of the following: 12 a) Elaborate the resins used in adhesive bonding. b) Suggest and explain the method for temporary joining plastic parts. c) If PE film is be used for making shopping bags needs to be printed suggest and explain suitable surface pretreatment

- d) Suggest and explain decorating method for golden text matter on coasters.
- e) Describe solution method for a powder coating manufacturing.

## 5. Attempt any TWO of the following:

method for it.

- a) Describe drilling and laser machining with plastics.
- b) Explain construction and working of jaw type sealer used for thermal sealing of plastic film with neat sketch.
- c) Explain screen printing of flat and cylindrical plastic parts with neat sketch.

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

- a) State characteristics and applications of any three types of adhesives.
- b) Identify and explain the decorating method used to important textile and metallic finish to plastic.
- c) Explain any two methods of power coating application.