Sea	at No.:	Enrolment No	
	Diplo	GUJARAT TECHNOLOGICAL UNIVERSITY oma Engineering - SEMESTER-III • EXAMINATION – SUMMER • 2014	
Subject Code: 332303		Code: 332303 Date: 19-06-2014	
	-	Name: Design Fundamentals of Moulds	
Ti	me: 1	0:30 am - 01:00 pm Total Marks: 70	
Ins	truction		
	2. 3. 4.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. English version is considered to be Authentic.	
Q.1		Design and draw sectional elevation and plan view of hand injection mold for any suitable product. Assume suitable dimensions.	14
Q.2	(a)	List any seven elements of machine injection mold. Give function of each element.	07
	(b)	Define parting surface. Give classification of various types of parting surfaces used in injection moulds. Explain non-flat parting surface with neat sketch. OR	07
	(b)	Give various types of bolsters and explain any two types in detail with neat sketches.	07
Q.3	(a)	Discuss about sprue puller with sketch.	07
	(b)	Explain ejector assembly with neat sketch. OR	07
Q.3	(a)	List and sketch various ejector elements.	07
	(b)	Explain balancing of runner with neat sketch.	07
Q.4	(a)	Define runner efficiency. Sketch various runner profiles showing their runner efficiency.	07
	(b)	Explain positioning of gate with neat sketch. OR	07
Q. 4	(a)	Explain any one: (1) Sprue gate (2) Subsurface gate	07
	(b)	Explain stripper plate ejection with neat sketch.	07
Q.5	(a)	List various methods for cooling of deep or long core inserts and explain any one with neat sketch.	07
	(b)	Explain integer core plate cooling with at least one example by neat sketch. OR	07
Q.5	(a)	Explain sleeve ejection technique with neat sketch.	07
	(b)	Describe cooling of circular cavity inserts by one method with neat sketch.	07
