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	GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering - SEMESTER-III • EXAMINATION – WINTER • 2014	
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Tin	ie: 10	GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering - SEMESTER-III • EXAMINATION – WINTER • 2014 ct Code: 332303 Date: 01-12-2014 ct Name: Design Fundamentals of Moulds : 10:30 am - 01:00 pm Total Marks: 70 tions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. English version is considered to be Authentic. Draw sectional elevation and plan of hand injection mould for any product of your choice. Draw product drawing also. (a) List various components of injection machine mould and write functions of any seven components in brief. (b) Compare integer and insert-bolster types of core and cavity. OR (b) Explain use of local inserts in integer mould plate with example. (a) List various types of parting surface and explain any one with neat sketch. (b) List various types of guide pillars used in injection mould design and explain any one with neat sketch. OR (a) Draw sketch of one product for each type of parting surface. (b) Explain about Locating Ring and its function. Sketch any one type of it. (a) Draw neat sketches of various types of ejector elements.
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.
Q.1		· · · · · · · · · · · · · · · · · · ·
Q.2	(a)	<u>.</u>
	(b)	Compare integer and insert-bolster types of core and cavity.
		OR
	(b)	Explain use of local inserts in integer mould plate with example.
Q.3	(a)	List various types of parting surface and explain any one with neat sketch.
	(b)	
		OR
).3	(a)	Draw sketch of one product for each type of parting surface.
	(b)	Explain about Locating Ring and its function. Sketch any one type of it.
Q.4	(a)	Draw neat sketches of various types of ejector elements.
	(b)	Write short note on 'Sprue Bush'.
		OR
). 4	(a)	List various types of gates and explain any one with neat sketch.
	(b)	Draw sketches of different runner layouts used in multi impression injection mould.

OR

Explain any one type of ejector plate assembly return system.

Explain any one type of cavity insert cooling with neat sketch.

Explain cooling of bolster plate with neat sketch.

Explain any one type of integer core plate cooling with neat sketch.

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Q.5

Q.5

(a)

(b)

(a)

(b)