FirstRanker.in
Question Bank for all

Seat No.:_____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER VIII (NEW SYLLABUS) EXAMINATION- SUMMER- 2017

Subject Code: 2183602 **Date:30-04-2018**

Subject Name: Design & Fabrication of Molds

Time: 10:30 AM to 01:00 PM **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

			MARKS
Q.1	**(a)**	Define: core, gate, ejection.	**03**
	(b)	What are the elements of compression mold? Support your answer with neat	**04**
	(c)	Prepare neat labelled cross-sectional view of RPVC Pipe Die. Write the functions of various parts.	**07**
Q.2	**(a)**	Write the types of compression molds.	**03**
	(b)	Write down the steps of transfer molding. Write its advantages.	**04**
	(c)	Explain the method of finding loading chamber depth of compression mold with a product example.	**07**
		OR	
	(c)	Explain direct mold clamping for injection mold in detail. Write its advantages.	**07**
Q.3	**(a)**	What is sprue? Mention its location in the mold.	**03**
	(b)	Write in brief about locating ring with neat sketch. Write its importance.	**04**
	(c)	Explain ejector plate assembly in detail with neat figure.	**07**
		OR	
Q.3	**(a)**	What is the function of guide pin? Mention its location in the mold.	**03**
	(b)	Explain in brief about Tapered location with neat sketch.	**04**
	(c)	Explain guiding and supporting ejector plate assembly in detail with neat figure.	**07**
Q.4	**(a)**	For which type of product, 'Ring gate' is used? Support your answer with sketch.	**03**
	(b)	Explain integer cavity plate cooling with neat sketch.	**04**
	(c)	Explain stripper plate ejection in detail with neat figure.	**07**
		OR	
Q.4	**(a)**	Write the type of runners. Support your answer with sketch.	**03**
	(b)	Explain core insert cooling with neat sketch.	**04**
	(c)	Explain sleeve ejection in detail with neat figure.	**07**
Q.5	**(a)**	Define: Three plate mold. Prepare sketch to support your answer.	**03**
	(b)	Explain annealing of mold parts in brief. Write its advantages.	**04**
	(c)	Explain Electric Discharge Machining in detail. Write its advantages and limitations.	**07**
		OR	
Q.5	**(a)**	Write the meaning of G00, G21, G81, M02, M08 and M19 in CNC programming.	**03**
	(b)	Explain Nitriding in brief. Write its advantages.	**04**
	(c)	Explain working of wire cut EDM machine in detail. Write its advantages and limitations.	**07**

****

www.FirstRanker.in