GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – SUMMER- 2016

Subject Code: 342304   **Date: 24- 05 - 2016**

Subject Name: Processing of Thermosets

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.**
4. **Use of programmable & Communication aids are strictly prohibited.**
5. **Use of only simple calculator is permitted in Mathematics.**
6. **English version is authentic.**

Q.1	(a)	State various types of compression moulds and explain any one.	**07**
	(b)	List the advantages and disadvantages of compression moulding process	**07**
Q.2	(a)	Sketch any one type of transfer mould and label its different parts.	**07**
	(b)	Discuss the importance of preheating in compression moulding.	**07**
		OR	
	(b)	Discuss the effect of process variables on compression moulding process.	**07**
Q.3	(a)	What are performs? Explain its importance in compression moulding.	**07**
	(b)	Explain causes and remedies for any two problems arising in transfer moulding.	**07**
		OR	
Q.3	(a)	Compare transfer moulding with injecton moulding of thermosets.	**07**
	(b)	Explain causes and remedies for any two problems arising in compression moulding.	**07**
Q.4	(a)	List different types of heating systems used in compression moulding machine and explain any one.	**07**
	(b)	Write the process steps in transfer moulding.	**07**
		OR	
Q.4	(a)	List and explain the steps in compression moulding.	**07**
	(b)	List the materials used in transfer moulding and applications of transfer moulding.	**07**
Q.5	(a)	Compare injection moulding process of thermoplastic and thermosets.	**07**
	(b)	Explain briefly 1) Breathing 2) Bulk factor.	**07**
		OR	
Q.5	(a)	Explain the start up and shut down process of injection moulding of thermosets.	**07**
	(b)	List out the machine elements of injection moulding of thermosets and draw and label a typical screw used in it.	**07**

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