

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER- IV EXAMINATION –Summer- 2019

Subject Code: 342304**Date: 20-05-2019****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.

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| Q.1 | (a) Explain compression molding process steps. | 07 |
| | (b) State various factors affecting selection of material for compression molding. Explain any two molding material. | 07 |
| Q.2 | (a) State the types of compression molds and explain any one with neat sketch. | 07 |
| | (b) State application of compression and transfer molding process. | 07 |
| OR | | |
| | (b) Draw flash type compression mold and label it different parts. | 07 |
| Q.3 | (a) Explain pot type molding process steps with neat sketch. | 07 |
| | (b) State advantages and disadvantages of transfer molding process. | 07 |
| OR | | |
| Q.3 | (a) Difference between pot transfer and plunger transfer molding. | 07 |
| | (b) Explain the basic principal of screw transfer molding process with neat sketch. | 07 |
| Q.4 | (a) Explain injection molding process for thermoset material. | 07 |
| | (b) Explain the process variables of thermoset injection molding. | 07 |
| OR | | |
| Q.4 | (a) Compare the compression and transfer molding process. | 07 |
| | (b) Write the advantages and disadvantages of compression molding process. | 07 |
| Q.5 | (a) Explain various heating elements of compression molds. | 07 |
| | (b) Explain in brief bulk factor and performs and give merit and demerit of its. | 07 |
| OR | | |
| Q.5 | (a) State application of compression & transfer molding. | 07 |
| | (b) Write short note on post curing, cooling fixture & finishing. | 07 |
