

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

Subject Code: 3362305**Date: 18-05-2019****Subject Name: Secondary Processing Techniques****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 | Answer any seven out of ten. | 14 |
| | <ol style="list-style-type: none"> 1. List the major process equipments use in calendaring process. 2. Write any four Casting Applications 3. Write requirements of gel coat. 4. List any eight FRP processes. 5. Draw neat sketch of Pultrusion Process. 6. Write any four applications of Slush Molding 7. Write any four application of Foam processes 8. List blowing agents use in foaming process. 9. Write any two Trouble Shooting of calendaring process. 10. List the material use in encapsulations. | |
| Q.2 | (a) Draw neat sketch of Calendaring Process plant layout and indicate all parts. | 07 |
| | OR | |
| | (a) Compare: Calendaring process with Sheet Extrusion. | 07 |
| | (b) Explain heating system of calendaring rolls. | 07 |
| | OR | |
| | (b) Write short note on “Types Of Calendars” | 07 |
| Q.3 | (a) Write short note on Casting Mold Materials | 07 |
| | OR | |
| | (a) Write process of Encapsulation. | 07 |
| | (b) List the applications of encapsulation | 04 |
| | OR | |
| | (b) Write advantages And disadvantages of casting process. | 04 |
| | (c) Write short note on Prepags | 03 |
| | OR | |
| | (c) List the various resins use in composite | 03 |
| Q.4 | (a) Explain the resin transfer molding with neat sketch | 07 |
| | OR | |
| | (a) Explain the filament winding with neat sketch | 07 |
| | (b) List and explain various mould materials use in FRP. | 07 |
| | OR | |
| | (b) Describe gel coat preparation and its application | 07 |
| Q.5 | (a) Explain any one production method. | 07 |
| | (b) List the Vinyl Dispersion Processes And explain any one. | 07 |
