

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – VI • EXAMINATION – SUMMER 2016**

**Subject Code: 362304****Date: 23 /05/2016****Subject Name: Miscellaneous Processing Techniques****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) With a neat sketch explain the plant layout for calendaring process. **07**  
(b) List different reinforced plastic processes and explain any one. **07**
- Q.2** (a) Explain calendaring roll arrangement. **07**  
(b) List the advantages and applications of FRP products. **07**  
OR
- (b) Describe in detail process steps for casting. **07**
- Q.3** (a) Explain the process of encapsulation . **07**  
(b) Describe in detail the property of materials used for casting process. **07**  
OR
- Q.3** (a) State the advantages and applications of encapsulation process. **07**  
(b) List the defects found in products made by casting process and suggest remedy for any two. **07**
- Q.4** (a) State the advantages and applications of foam process. **07**  
(b) Explain the lamination process with a neat sketch. **07**  
OR
- Q. 4** (a) State various methods of foam production. **07**  
(b) State the types of laminates and various materials used in lamination process. **07**
- Q.5** (a) Explain the vinyl dispersion process steps. **07**  
(b) Explain the post calendaring processes. **07**  
OR
- Q.5** (a) Write a short note on Formulation for vinyl dispersion. **07**  
(b) Write a short note on defects found in FRP products. **07**

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