

- Q.23 Explain the use of sheet moulding compounds.
- Q.24 Explain two defects and remedies in Matched mold forming.
- Q.25 Discuss the Hand-layup process.
- Q.26 Explain principle of pultrusion.
- Q.27 Discuss filament-winding process.
- Q.28 Discuss centrifugal process.
- Q.29 Discuss advantages of spray up process over hand layup technique.
- Q.30 Discuss 'encapsulation' process.
- Q.31 Discuss various types of compression molding machine/
- Q.32 Discuss film casting process.
- Q.33 Give calculations of the line pressure in transfer molding.
- Q.34 Explain painting and electroplating on plastics.
- Q.35 Explain compression molding of SMC and DMC compounds.

#### Section-D

**Note: Long answer type questions. Attempt any two questions out of three Questions. (2x10=20)**

- Q.36 Explain principle, construction and working of transfer moulding in detail.
- Q.37 Discuss :
- a) Different types of welding techniques
  - b) Drape forming
- Q.38 Explain thermoforming process, advantages and their faults and remedies.

No. of Printed Pages : 4

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### **4th Sem. Branch : Plastic Engg. Subject : Plastic Processing Techniques-II**

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple choice Questions. All Questions are compulsory. (10x1=10)**

- Q.1 \_\_\_\_\_ is used as a reinforced agent in polymer matrix.
- a) Glass
  - b) Water
  - c) Both
  - d) None of these
- Q.2 The distance between the stationary platen and the moving platen on a molding press when the actuating system is fully retracted without ejector box and / or spacers.
- a) Mold Height
  - b) Machine Height
  - c) Daylight
  - d) None of these
- Q.3 What is the ideal material for processing in compression moulding?
- a) Plastics
  - b) Thermoplastics
  - c) Thermo setting plastics
  - d) Non Ferrous materials

- Q.4 During transfer moulding plastic material is transferred into a chamber called \_\_\_\_\_.  
 a) Sprue                                      b) Pot  
 c) Mould Cavity                              d) None
- Q.5 Which moulding process is associated with breathing?  
 a) Transfer moulding  
 b) Injection moulding  
 c) Compression moulding  
 d) Extrusion moulding
- Q.6 Which process is used for manufacture of small & large Reinforced polyester product?  
 a) Hand lay-up                              b) Spray up  
 c) Vacuum Bag                              d) Pressure Bag
- Q.7 Which of the following material is not thermoformed?  
 a) HIPS & ABS                              b) POM & Nylon  
 c) PVC                                              d) PMMA
- Q.8 In compression moulding the curing time is \_\_\_\_\_.  
 a) Less                                              b) Moderate  
 c) More                                              d) None
- Q.9 Full form of FRP is \_\_\_\_\_.  
 a) Filament rod polymerization  
 b) Fiber rubber processing  
 c) Filament resin plastic  
 d) Fiber reinforced plastics

- Q.10 Vents are provided in compression mold \_\_\_\_\_.  
 a) To remove extra material  
 b) To remove the volatile gases  
 c) To remove moisture  
 d) All of these

### Section-B

**Note: Objective type questions. All questions are compulsory. (10x1=10)**

- Q.11 Name two thermoset materials used in compression moulding process.
- Q.12 Expand SMC.
- Q.13 Name two defects of thermoforming process.
- Q.14 Name two products made by casting process.
- Q.15 Filament winding is used in \_\_\_\_\_ application.
- Q.16 Give two advantages of thermoforming process.
- Q.17 Define Bulk factor.
- Q.18 Name two advantages of pultrusion process.
- Q.19 Define Pre-pegs.
- Q.20 What is the maximum thickness that can be allowed for a plastics sheet in vacuum forming process?

### Section-C

**Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)**

- Q.21 Give importance of preheating moulds, in moulding process.
- Q.22 Suggest some remedies for reducing burn marks in plastic components.