

- 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.

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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.