

- Q.27 Discuss snap back forming technique of thermoforming.
- Q.28 Discuss ultrasonic welding process.
- Q.29 Explain film casting.
- Q.30 Write short note on cutting and drilling.
- Q.31 Give steps for compression moulding cycle.
- Q.32 Discuss Hand lay - up technique.
- Q.33 Discuss Drape vacuum forming process.
- Q.34 Discuss Dough moulding compounds.
- Q.35 Explain principle of Pultrusion.

SECTION-D

Note : Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Explain with neat sketch principle, construction and working of compression moulding.
- Q.37 Explain:
- Various defects and remedies of Compression moulding machine
 - Limitations and advantages of thermoforming.
- Q.38 Discuss:
- Filament winding technique
 - Pot type transfer moulding

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4th Sem / Plastic Engineering 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 _____ occurs when a thin layer of materials is forced out of the mold cavity at the parting line or ejector pins location.
- Flashing
 - Weld lines
 - Bubbles
 - Sink mark
- Q.2 _____ or Dieseling show up on the finish molded parts as charred or dark plastic caused by trapped gas and is usually accompanied by a distinctive burnt smell.
- Flow marks
 - Die lines
 - Burn marks
 - Meld lines
- Q.3 The ratio of volume of moulded solid to the volume of loose moulding compound is
- K value
 - Bulk factor
 - Hydrogen value
 - MFI
- Q.4 _____ are difficult to mould in compression moulding.
- Single cavity mould
 - Multi cavity mould
 - Large cavity mould
 - Small cavity mould
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Q.5 Vents are provided in compression mould _____

- a) To remove extra material
- b) To remove the volatile gases
- c) To remove moisture
- d) All of these

Q.6 In thermoforming, plastic sheets are heated to _____.

- a) Boiling point b) Tg point
- c) Sag point d) Melting point

Q.7 Mould for thermoforming process are made up _____ material.

- a) Aluminium b) Wooden
- c) Epoxy d) All of them

Q.8 Which moulding process is associated with breathing?

- a) Transfer moulding
- b) Injection moulding
- c) Compression moulding
- d) Extrusion moulding

Q.9 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.10 During transfer moulding, plastic material is transferred into a chamber called _____

- a) Sprue b) Pot
- c) Mould cavity d) None

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 Filament winding is used in _____ application.

Q.13 Expand BMC.

Q.14 Name two different types of printing process.

Q.15 _____ cannot be avoided in compression moulds.

Q.16 Give two defects of thermoforming process.

Q.17 Give two applications of compression moulding.

Q.18 Flash is removed by _____ process.

Q.19 Name two limitations of vacuum forming process.

Q.20 Name different type of presses used in compression molding.

SECTION-C

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

Q.21 Discuss hot tool welding of plastics.

Q.22 Discuss encapsulation process.

Q.23 Discuss filament - winding process.

Q.24 Explain Spray - up technique and its advantages.

Q.25 Give importance of preheating moulds, in moulding process.

Q.26 Explain effect of process variables on product properties.