

- Q.27 Explain different types of dies.
- Q.28 Explain heating system and temperature control of dies.
- Q.29 Draw a neat sketch of dies for rods.
- Q.30 Explain different types of compression molds.
- Q.31 How to calculate clamp pressure and ram pressure in compression molding.
- Q.32 Explain with neat sketch injection blow molds for neck design.
- Q.33 What are the factors to be considered while designing a product?
- Q.34 Explain wire coating with neat diagram.
- Q.35 Draw a neat sketch of a transfer mold.

SECTION-D

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

- Q.36 Write short note on
- Mandrel design
 - Parison thickness control
- Q.37 Explain different steps for selection of compression molding machine.
- Q.38 Write short notes on
- Polymer melt flow
 - Die geometry

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Roll No.

6th Sem / Plastic, Chem Engg (Spl Polymer Tech)

Subject:- Design of Dies & Moulds-II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Dies are classified
- According to extrudate
 - According to direction of flow of melt
 - According to Construction
 - All of these
- Q.2 Die swell is influenced by
- Shear rate
 - L/D Ratio of die land
 - Ratio of extruder dia to land dia
 - All of these
- Q.3 Land section of dies is
- A convergent channel section in die
 - A parallel channel section
 - Both A & B
 - None of these

- Q.4 Wire coating dies consist of
- Spider leg
 - Guide bush
 - Choker bar
 - None of these
- Q.5 A land section of parison die can be
- Parallel
 - Divergent
 - Convergent
 - All of these
- Q.6 Most common heaters used in die
- Cartridge heater
 - Cast heater
 - Band Heater
 - None of these
- Q.7 Most common material used for production of dies
- Iron
 - Steel
 - Alloy steel
 - None of these
- Q.8 Function of Hopper
- Feed of raw material
 - To heat the material
 - Both A & B
 - None of these
- Q.9 Die provides the shape of product is
- Three Dimensional
 - Two dimensional
 - Both A & B
 - None of these
- Q.10 Water bottles are prepared by
- Injection molding
 - Blow molding
 - Transfer molding
 - Compression molding

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SECTION-B

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

- Q.11 Define gate.
- Q.12 Define preconditioning.
- Q.13 Define hydraulic pressure.
- Q.14 Define Pre form
- Q.15 Why screw is tapered.
- Q.16 What is die land
- Q.17 What die swell
- Q.18 What is pinch off
- Q.19 Function of runner
- Q.20 Define co-extrusion.

SECTION-C

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

- Q.21 Discuss cooling of blow molds in detail.
- Q.22 Draw neat sketch of Blow mold.
- Q.23 With diagram explain dies parts and uses of flexible tube.
- Q.24 What are the various methods of providing vents? Explain their significance.
- Q.25 What are the objectives achieved from good gating system.
- Q.26 Explain general features of extrusion dies.

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