

- 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

 - (a) Mandrel design
 - (b) Parison thickness control

Q.37 Explain different steps for selection of compression molding machine.

Q.38 Write short notes on

 - a) Polymer melt flow
 - b) Die geometry

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6th Sem / Plastic, Chem Engg (Spl Polymer Tech) Subject:- Design of Dies & Moulds-II

Time : 3Hrs. M.M. : 100

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SECTION-A

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

- Q.1 Dies are classified

 - a) According to extrudate
 - b) According to direction of flow of melt
 - c) According to Construction
 - d) All of these

Q.2 Die swell is influenced by

 - a) Shear rate
 - b) L/D Ratio of die land
 - c) Ratio of extruder dia to land dia
 - d) All of these

Q.3 Land section of dies is

 - a) A convergent channel section in die
 - b) A parallel channel section
 - c) Both A & B
 - d) None of these

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

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 pintch 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.