

- Q.24 Draw diagram of Wire coating die.
 - Q.25 State limitations of compression moulds.
 - Q.26 Explain pot capacity.
 - Q.27 Explain die used for making flexible tubes.
 - Q.28 Discuss calculations for clamp pressure for compression mould.
 - Q.29 Explain die head assembly for blow mould.
 - Q.30 Explain neck design for injection blow mould.
 - Q.31 Discuss selection criteria for compression molding machine.
 - Q.32 Explain heating and temperature control of systems for dies.
 - Q.33 Discuss principle of transfer moulding.
 - Q.34 Explain mandrel design for injection blow mould.
 - Q.35 Explain various types of cooling for Blow moulds.

Section-D

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

- Q.36 Write short note :

 - a) Types of dies
 - b) Semi positive compression moulds.

Q.37 Explain pipe extrusion die used in pipe extrusion plant with complete line diagram.

Q.38 Give comparison between compression and transfer moulding process.

No. of Printed Pages : 4

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6th Sem.

Branch : Plastic, Chem Engg (Spl Polymer Tech)

Subject : Design of Dies and Mould-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which type of mould is called Runner less mould?

 - a) Compression mould b) Blow mould
 - c) Cold runner mould d) Hot runner mould

Q.2 Which part is an opening at the entrance of the cavity?

 - a) Runner b) Gate
 - c) Core d) Sprue

Q.3 What is the requirement for compression moulding process?

 - a) Heat b) Pressure
 - c) Heat and Pressure d) air, Heat and Pressure

Q.4 What process is used in production of compression moulding process?

 - a) Open process b) Closed process
 - c) Batch process d) Continuous process

- Q.5 Which moulding process is associated with breathing?
 a) Transfer moulding b) Injection moulding
 c) Compression moulding d) Extrusion moulding
- Q.6 What is the advantage of preheating the raw material in compression moulding?
 a) Increase the Flash b) Decrease the strength
 c) Reduce the flow d) Reduce moulding pressure
- Q.7 Which moulding process consists of sprue, runner and gate?
 a) Automatic Compression moulding
 b) Transfer moulding
 c) Hand Compression moulding
 d) Rotational moulding
- Q.8 What we called the section of the mould where the parison is squeezed and welded together?
 a) Neck b) Gate
 c) Pinch off d) Mandrel
- Q.9 Which type of product is produced by blow moulding process?
 a) Solid pin b) Bush
 c) Bottle d) Pipe
- Q.10 Which die enables molten polymers to enter from extrudes to die from sideways?
 a) Side feed die b) Spider die
 c) Spiral mandrel type d) Bottom feed die

Section B

- Note:** Objective types Questions. All Questions are compulsory. (10x1=10)
- \Q.11 _____ can be modified from its normal concentric tubular shape?
- Q.12 _____ is the connecting member between gate and sprue bush.
- Q.13 _____ is round cross section and has taper along its length.
- Q.14 _____ type of cooling is usually employed to cool core of long cylindrical products.
- Q.15 How many plates in the mould for transfer moulding process (three or four)?
- Q.16 _____ and _____ are the main elements of mould.
- Q.17 Name the two materials used for blow moulding process.
- Q.18 Give two functions of band heaters.
- Q.19 _____ die is used for wife coating.
- Q.20 Which plate is fitted to the mould for fastening a mould platen?

Section-C

- Note:** Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)
- Q.21 Explain general features of Extrusion dies.
- Q.22 Discuss various mould materials.
- Q.23 Explain Die swell and its importance.