

- 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 :
- Types of dies
 - 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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Roll No.....

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?
- Compression mould
 - Blow mould
 - Cold runner mould
 - Hot runner mould
- Q.2 Which part is an opening at the entrance of the cavity?
- Runner
 - Gate
 - Core
 - Sprue
- Q.3 What is the requirement for compression moulding process?
- Heat
 - Pressure
 - Heat and Pressure
 - air, Heat and Pressure
- Q.4 What process is used in production of compression moulding process?
- Open process
 - Closed process
 - Batch process
 - 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 wire 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.