

- Q.30 Give Difference between Compression moulding and Transfer moulding.
- Q.31 What is Pinch off? Explain its importance.
- Q.32 Explain die swell.
- Q.33 Explain any two plastic materials used in blow moulding along with their properties.
- Q.34 Give difference between feed block and multi manifold die used for co extrusion.
- Q.35 Discuss criteria for selection of Compression moulding machine.

SECTION-D

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

- Q.36 Discuss:
- Parison wall thickness control in blow moulding
 - Calculation of clamp pressure and ram pressure in compression moulding
- Q.37 Explain side feed, spider type and spiral mandrel type blown film dies used in blown film extrusion, with their advantages and disadvantages.
- Q.38 Write short note on :
- Types of dies used in extrusion process.
 - Die geometry, design of sprue and runners, gate used in plastic processing

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6th Sem /
Branch : Plastic, Chem Engg. (Spl. Polymer Tech.)
Sub. : Design of Dies and Moulds-II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which is the part of die in blow moulding?
- mandrel
 - Mould
 - Runner
 - Gate
- Q.2 What is the name of line which lies between two mould halves?
- Parting Line
 - Center Line
 - Matching Line
 - Vertical Line
- Q.3 Which process we used both die and mould?
- Blow Moulding
 - Injection Moulding
 - Rotational moulding
 - FRP
- Q.4 Which material is used for making blow moulds?
- Mild steel
 - Aluminum
 - Stainless steel
 - High Carbon steel
- Q.5 Which part is an opening at the entrance of the cavity?
- Runner
 - Gate
 - Sprue
 - Core

- Q.6 What is the purpose of guide pillars in compression moulding?
- a) To retain shape b) To maintain pressure
c) To improve distance d) To ensure alignment
- Q.7 Which part is used to shape the parison in blow moulding process?
- a) Die b) Mould
c) Punch d) Cup
- Q.8 Which die enable the material to enter centrally and forwarded away
- a) Side feed die b) Spider die
c) Spiral mandrel type d) Bottom feed die
- Q.9 How many party are there in blow mould?
- a) One male half
b) Two female halves
c) One male and one female half
d) Two male halves
- Q.10 Why buffing process is done?
- a) Remove the Scratch b) Remove the flash
c) Increase the Scratch d) Polishing

SECTION-B

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

- Q.11 _____ is the function of Tie bar?
- Q.12 What is the function of mould Runner?
- Q.13 Name the two materials used for blow moulding process.

- Q.14 _____ and _____ are the main elements of mould.
- Q.15 Vents are provided for easy removal of entrapped air inside mould. (True/False)
- Q.16 Mould closing and opening depends on size of the component. (True/False)
- Q.17 Which type of mould requires accurate weighed charge material in compression moulding?
- Q.18 Give two functions of band heaters.
- Q.19 _____ die is used for wire coating.
- Q.20 What is the process in which chemical cross links are formed in the thermoset plastics by heat and pressure.

SECTION-C

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

- Q.21 Discuss semi positive compression mould.
- Q.22 Discuss hollow cross sectional die used in extrusion process.
- Q.23 Draw moulding cycle for compression moulding process.
- Q.24 Explain heating and cooling arrangements for compression moulds.
- Q.25 Give advantage of positive compression mould over semi positive compression mould.
- Q.26 Discuss Z-type of cooling connection.
- Q.27 Write short note on Mould materials.
- Q.28 Explain Die for solid rod.
- Q.29 Explain Principle of compression moulding.