

- Q.21 Draw moulding cycle for compression moulding process.
- Q.22 Explain heating and cooling arrangements for compression moulds.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Discuss wire and cable coating die, with the help of neat sketch.
- Q.24 Write a short note on:
- Pot Capacity and its calculations
 - Design of sprue and runners, gate used in plastic processing.
- Q.25 Write short note on:
- Flat film and sheet die
 - Explain spiral mandrel die for blown film extrusion.

No. of Printed Pages : 4
Roll No.

222246

4th Semester/ Plastic Technology Subject : Design of Dies and Moulds-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which material is used for making blow moulds?
- Mild steel
 - Aluminum
 - Stainless steel
 - High Carbon Steel
- Q.2 How many parts are there in blow mould?
- One male half
 - Two female halves
 - One male and One Female half
 - Two male halves
- Q.3 Which die enables molten polymers to enter from extruder to die from sideways?
- Side feed die
 - Spider die
 - Spiral mandrel type
 - Bottom feed die.

(40)

(4)

222246

(1)

222246

Q.4 What is the remedy for short shot defect in compression moulding process?

- a) Increase charge weight
- b) Decrease mould closing speed
- c) Increase mould temperature
- d) Reduce breathing time

Q.5 What is function of mould runner?

- a) Vent trapped air
- b) Provide entry into the mould cavity
- c) Define mould parting line
- d) Provide path to the mould gates

Q.6 The size of the runner depends on the size of the part and its wall thickness.

- a) True
- b) depends on both
- c) Does not depends on any of them
- d) false

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Flash is removed from the final product by _____ process.

Q.8 Define sprue bush

Q.9 Register ring is used to align the mould with machine platen. (True/False)

Q.10 Give two functions of band heaters.

Q.11 Mould closing and opening depends on size of the component. (True/False)

Q.12 _____ type of cooling is usually employed to cool core of long cylindrical products.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss criteria for selection of parting line.

Q.14 Give advantages of plunger transfer mould.

Q.15 Explain various materials for blow moulds.

Q.16 Explain the importance of pinch off in blow moulding process?

Q.17 Explain die land and die swell.

Q.18 Explain calculation of clamp pressure and type of loading chamber design

Q.19 Explain parison wall thickness control in blow moulding

Q.20 Give difference between open flash and semi-positive compression mould