

Section-D

Note: Long answer questions. Attempt any two question 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 :
- a) Pot Capacity and its calculations
 - b) Parison thickness control
- Q25 Write short note on :
- a) Calculation of clamp pressure and ram pressure in Compression moulding.
 - b) Die geometry, design of sprue and runners, gate used in plastic processing.

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Roll No.

4th Sem. Branch : Plastic Technology Subject : Design of Dies & Moulds-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 Which die enables molten polymers to enter from extrude to die from sideways?
- a) Side feed die b) Spider die
 - c) Spiral mandrel type d) Bottom feed die
- Q.2 Plastic wires can be produce by using_____.
- a) Offset die b) Cross head die
 - c) Inline die d) None of these
- Q.3 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.4 What is function of mould runner?
- Vent trapped air
 - Provide entry into the mould cavity
 - Define mould parting line
 - Provide path to the mould gates
- Q.5 Why buffing process is done?
- Remove the Scratch
 - Remove the flash
 - Increase the Scratch
 - Polishing
- Q.6 The size of the runner depends on the size of the part and its wall thickness.
- True
 - Depends on both
 - Does not depends on any of them
 - False

Section-B

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

- Q.7 Vents are provided for easy removal of entrapped air inside mould. (True/False)
- Q.8 Mould closing and opening depends on size of the components. (True/False)

- Q.9 Which type of mould requires accurate weighed charge material in compression moulding?
- Q.10 Give two functions of band heaters.
- Q.11 _____ die is used for wire coating.
- Q.12 Give two functions of band heaters.

Section-C

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

- Q.13 Discuss semi positive compression mould.
- Q.14 Discuss hollow cross sectional die used in extrusion process.
- Q.15 Give advantages of plunger transfer mould.
- Q.16 Explain various materials for blow moulds.
- Q.17 What is pinch off? Explain its importance.
- Q.18 Explain die swell.
- Q.19 Explain temperature and pressure control for extrude process.
- Q.20 Explain parison wall thickness control in blow moulding.
- Q.21 How does number of impressions affect mould design?
- Q.22 Give difference between feed block and multi-manifold die used for co extrusion.