

- Q.20 What is Pinch off? Explain its importance.
- Q.21 Discuss positive compression mould.
- Q.22 Discuss hollow cross sectional die used in extrusion process.

SECTION-D

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

- Q.23 Write short note on:
- a) Types of dies used in extrusion process.
 - b) Die geometry, design of sprue and runners, gate used in plastic processing
- Q.24 With a neat sketch, explain:
- a) Open Flash Mould
 - b) Semi positive mould
- Q.25 Discuss Flat film extrusion process with complete diagram, representing various type of dies used in the process.

No. of Printed Pages : 4
Roll No.

222246

4th Sem.
Branch : Plastic Technology
Sub. Design of Die & Moulds-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 A mould cavity is also known as ____.
- a) Impression
 - b) Core
 - c) Core-pin
 - d) Ejector
- Q.2 Which part is an opening at the entrance of the cavity?
- a) Runner
 - b) Gate
 - c) Sprue
 - d) Core
- Q.3 There is no pinch off mark in ____.
- a) Extrusion Blow moulding
 - b) Injection Blow moulding
 - c) Injection moulding
 - d) None of these

- Q.4 _____ cannot be avoided in compression moulds.
- a) Sprue b) Runner
c) Gate d) Flash
- Q.5 What is the name of line which lies between two mould halves?
- a) Parting Line b) Center Line
c) Matching Line d) Vertical Line
- 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

SECTION-B

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

- Q.7 Mould closing and opening depends of size of the component. (True/False)
- Q.8 Which type of mould requires accurate weighed charge material in compression moulding?
- Q.9 Give two functions of band heaters.

- Q.10 _____ die is used for wire coating.
- Q.11 A moulding which has a recess or projection is termed as undercut moulding. (True/False)
- Q.12 Automatic degating with fewer marks is also called as sub surface or submarine gate. (True/False)

SECTION-C

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

- Q.13 Give for points to be considered while selecting a material for dies.
- Q.14 With a neat sketch define die geometry.
- Q.15 Write a note on parison wall thickness control. How is it achieved?
- Q.16 Write the significance of clamping tonnage.
- Q.17 Write a short note on blowing air requirement in blow moulds.
- Q.18 Give comparison between compression moulding and transfer moulding.
- Q.19 Give types of maintenance for dies. Explain any one in detail.