

- 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.

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

Time : 3 Hrs.

M.M. : 60

SECTION-D

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

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

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.
- Sprue
 - Runner
 - Gate
 - Flash
- Q.5 What is the name of line which lies between two mould halves?
- Parting Line
 - Center Line
 - Matching Line
 - Vertical Line
- Q.6 What is the purpose of guide pillars in compression moulding?
- To retain shape
 - To maintain pressure
 - To improve distance
 - 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)

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