

Q.21 Discuss Injection blow moulds

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Roll No.

Q.22 Discuss hollow cross sectional die used in extrusion process.

SECTION-D

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

Q.23 Discuss flat film and sheet die with the help of neat sketch.

Q.24 Write a short note on :

- a) Pot capacity and its calculations
- b) Parison thickness control

Q.25 Explain side feed, spider type and spiral mandrel type blow film dies used in blown film extrusion, with their advantages and disadvantage.

Time : 3 Hrs.

M.M. : 60

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

Time : 3 Hrs. M.M. : 60
Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Why buffing process is done ?
 - a) Remove the scratch b) Remove the flash
 - c) increase the scratch d) Polishing
- Q.2 Flash is inevitable in compression moulds .
 - a) True b) False
 - c) Cant' say d) None of above
- Q.3 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

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- Q.4 Breaker plate and screen pack are used for _____.
a) Filter impurities
b) To provide back pressure
c) To make linear flow
d) All of these

- 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 The female portion of a mould that shapes the outer part of the product is known as _____.
a) Core b) Cavity
c) Runner d) Gate

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 _____ is the function of tie bar ?
- Q.8 _____ die is used for wire coating.
- Q.9 Give two functions of band heaters.
- Q.10 Write the name of two materials used to make blow moulds.
- Q.11 Vents are provided for easy removal of entrapped air inside Mould. (True/ False)

- Q.12 Mould closing and opening depends on size of the component. (True/ False)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 How does number of impressions affect mould design ?
- Q.14 Define
a) Pinch off
b) Neck design
- Q.15 Write a note on types of transfer mould.
- Q.16 Give difference between feed block and multi-manifold die used for co extrusion.
- Q.17 Write a short note on dies used in solid section.
- Q.18 Give comparison between compression moulding and transfer moulding .
- Q.19 Give types of maintenance for dies. Explain any one in detail.
- Q.20 Write the significance of clamping tonnage . How will you calculate tonnage of compression moulding machine .