

- Q.21 Discuss Injection blow moulds
- 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.

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4th Sem / 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 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

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. (6x1=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)

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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. (8x4=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 .

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