

SECTION-D

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

Q.23 Write short note on :

- a) L/D ratio and its significance
- b) Embossing and printing

Q.24 Discuss various calendaring defects and their remedies.

Q.25 Explain principle construction and working of vented barrel extruder with neat sketch.

No. of Printed Pages : 4

222231

Roll No.

3 rd Sem / Branch : Plastic Technology

Subject : Plastic Processing techniques-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Extrusion is a _____ Process.

- a) Continuous b) Batch
- c) Simple d) Non uniform

Q.2 In extrusion process, cross section of product at any point is _____.

- a) Irregular b) Different
- c) Non uniform d) Same

Q.3 Which media is used to blow the film?

- a) Air b) Gas
- c) Water d) Oil

Q.4 Blow up ratio is defined as _____.

- a) Diameter of bubble to diameter of dies
- b) Radius of bubble to radius of die
- c) $(D)^2$ of bubble to $(D)^2$ of die
- d) None of these

- Q.5 What is the function of breaker plate in extrusion?
- a) Breaking the screen blocking
 - b) Breaking the consistency
 - c) Converting spiral flow to linear flow
 - d) Breaking the polymer chain
- Q.6 Which die enable the material to enters centrally and forwarded away.
- a) side feed die
 - b) Spider die
 - c) Spiral mandrel type
 - d) Botom feed die

SECTION-B

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

- Q.7 The gauge pressure of air used to inflate parison is between_____.
- Q.8 Define parison.
- Q.9 Name two dies used in extrusion process.
- Q.10 _____is the function of screen pack.
- Q.11 _____is a function of sizing unit.
- Q.12 Name various materials used in multi layer packaging.

SECTION-C

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

- Q.13 Explain draw down ratio.
- Q.14 Give Four defects and their remedies for extrusion process.
- Q.15 Explain take -off devices used in extrusion.
- Q.16 Briefly explain types of screws used in extrusion.
- Q.17 Define following:
- a) Channel width
 - b) Helix angle
 - c) Root diameter of screw.
- Q.18 Write short note on winding equipments.
- Q.19 Discuss advantages of calendaring over extrusion.
- Q.20 Define take off and stripper section in calendaring.
- Q.21 Explain briefly blown film extrusion process.
- Q.22 Write short note on coextruded sheets.