

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 calendering defects and their remedies.

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

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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 enter centrally and forwarded away.

- a) side feed die
- b) Spider die
- c) Spiral mandrel type
- d) Bottom 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.