

Q.22 Give four troubleshoots of calendering process.

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Roll No.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

- Q.23 Explain advantages and disadvantages of calendering process over extrusion process.
- Q.24 Explain manufacturing of wire and cable with neat sketch.
- Q.25 With the help of neat sketch discuss manufacturing of multi layer blown films.

**3rd Sem / Branch : Plastic Technology
Sub.: Plastic Processing Techniques-I**

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(6 \times 1 = 6)$

- Q.1 What is the remedy for uneven thickness defect in pipes?
- Moisture content
 - Do proper die centering
 - Low air pressure
 - Stabilizer level low
- Q.2 Where is the screen pack is placed in extruder?
- Screw and barrel
 - Screw and breaker plate
 - Breaker plate and die
 - Hopper and barrel
- Q.3 How the film is cooled in vertical upward blown film extrusion process?
- By blowing air
 - By forcing chilled water
 - By flowing normal water
 - By blowing nitrogen gas

(60)

(4)

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(1)

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Q.4 Which instrument is used to measure thickness of film?

- a) Vernier calliper b) Digital micrometer
- c) Manometer d) Vernier depth gauge

Q.5 Which process is used to make different types of filaments?

- a) Monofilament extrusion process
- b) Wire coating extrusion process
- c) Sheet extrusion process
- d) Tubular film process

Q.6 Which is the unit to measure the products of extruder output?

- a) Kg/hours b) M/hours
- c) Km/hours d) Mass/hours

SECTION-B

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

Q.7 Give one disadvantage of continuous extrusion blow moulding.

Q.8 Venting is needed for ____.

Q.9 In compression zone _____ taken place.

Q.10 Extrudate cut into desired length in the _____.

Q.11 Name different types of calendar roll.

Q.12 Give two applications of calendaring technique.

SECTION-C

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

Q.13 Explain L/D ratio and its importance.

Q.14 Explain die swell in blown film.

Q.15 Name different type of calendar rolls. Explain any one.

Q.16 Explain take-off devices used in extrusion.

Q.17 Discuss parison programming and its importance.

Q.18 Explain importance of stretching and orientation in extrusion.

Q.19 Define channel depth and root diameter of screw used in extrusion.

Q.20 Discuss bubble casing.

Q.21 Define following:

- a) Adaptor
- b) Types of screw used in extrusion