

SECTION-D

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

- Q.23 Explain various calendaring defects and their remedies. (Atleast 5 defects)
- Q.24 Explain extrusion of pipes and sheets process with neat sketch.
- Q.25 Explain Multi-layer blown films process with neat sketch.

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Roll No.

3rd Sem.

Branch : Plastic Technology

Sub.: Plastic Processing Techniques-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

- Q.1 Which of the following is not an important factor of cooling in extrusion?
- a) Reduction in shrinkage
 - b) Reduction in distortion
 - c) Ease of adding colours
 - d) Rate of cooling
- Q.2 Calendering is mostly suited for making PVC..
- a) True
 - b) False
 - c) Neither A nor B
 - d) Both A & B
- Q.3 Which of the following equipment is used for controlling the temperature of polymer material in the extrusion process?
- a) Thermo resistor
 - b) Thermometer
 - c) Thermocouple
 - d) Glass tube

- Q.4 In which of the following a die is used
- a) Compression moulding
 - b) Injection moulding
 - c) Extrusion moulding
 - d) All of the above

- 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 Coating of electrical wires is done with
- a) Compression moulding b) Injection moulding
 - c) Extrusion moulding d) All of the above

SECTION-B

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

- Q.7 Which media is used to blow the film?
- Q.8 How the film is cooled in vertical upward blown film extrusion process?
- Q.9 Which instrument is used to measure thickness of film?

- Q.10 Name various materials used in multi layer packaging.
- Q.11 Extrusion is a _____ process.
- Q.12 _____ is the remedy for uneven thickness defect in pipes.

SECTION-C

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

- Q.13 Explain Take-Off devices used in extrusion.
- Q.14 Give four defects and their remedies for extrusion process.
- Q.15 Explain L/D ratio and its significance.
- Q.16 Briefly explain types of screws used in extrusion.
- Q.17 Discuss advantages and disadvantages of coextruded sheets and pipes.
- Q.18 Discuss advantages of calendaring over extrusions.
- Q.19 Define the need of stretching and orientation in extrusion.
- Q.20 Discuss the use of vented barrel extruder.
- Q.21 Write short note on cutting devices used in extrusion.
- Q.22 Write short note on embossing and printing.