

- Q.24 Name the different zones in extrusion molding.
- Q.25 Explain hot stamping.
- Q.26 Write short note on polymer processing.
- Q.27 Write short note on polymer melt flow processes.
- Q.28 Write short note on preventive maintenance.
- Q.29 Compare merits and demerits of breakdown maintenance and scheduled maintenance.
- Q.30 Write in short objective of maintenance and their importance.
- Q.31 Write any five materials used in extrusion blow molding.
- Q.32 What are the cooling and heating systems in calendering line?
- Q.33 Explain filaments process with neat sketch.
- Q.34 What is L/D ratio, give its advantages.
- Q.35 Give the classification of different screw used in extrusion.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain rotogravure printing with diagram.
- Q.37 Write short note on
- a) Bubble casing b) Die swell
- Q.38 Explain calendaring and their types write any one of them.

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Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Large plastics tanks are prepared by
- a) Injection molding
- b) Compression molding
- c) Rotational molding
- d) Transfer molding
- Q.2 Bottles and cans are molded by
- a) Blow molding
- b) Compression molding
- c) Injection molding
- d) Extrusion molding
- Q.3 Plastics mugs are prepared by
- a) Injection molding
- b) Blow molding
- c) Extrusion molding
- d) Compression molding

- Q.4 Vents are provided in molds
- To remove excess gases
 - To heat material
 - To cool material
 - None of these
- Q.5 Function of barrel is
- To melt material
 - To cool material
 - To pump material
 - To store material
- Q.6 Bend heaters are used to
- Provide uniform heating
 - Provide non-uniform heating
 - Both a & b
 - None
- Q.7 Pitch is present
- Screw
 - Barrel
 - Hopper
 - Nozzle
- Q.8 Which type of nozzle is used in injection molding?
- Divergent
 - Convergent
 - Both A & B
 - None of these
- Q.9 Printing is a
- Post processing operation
 - Primary operation
 - Tertiary operation
 - None of these

- Q.10 Wires and cables are prepared by
- Extrusion molding
 - Compression molding
 - Blow molding
 - Transfer molding

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Injection moulding is a continuous process. (True/False)
- Q.12 What is L/D ratio?
- Q.13 Define screw.
- Q.14 Define feed zone.
- Q.15 Define die.
- Q.16 Define core.
- Q.17 Define mold.
- Q.18 Define screen pack.
- Q.19 Define perform.
- Q.20 Define maintenance.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain in short extrusion molding of plastics with diagram.
- Q.22 What is the function of feed zone?
- Q.23 Explain flexographic printing process.