

- Q.27 Explain difference between cartridge heaters and band heaters.
- Q.28 What is curling of parison? Suggest remedies.
- Q.29 State four defects in Rotational moulding process and discuss its probable cause and remedies.
- Q.30 State four defects in blow moulding process and discuss its probable causes and remedies.
- Q.31 Discuss the role of limit switch and thermocouple in injection moulding process.
- Q.32 State merits of Bi-axially oriented Blow moulding products.
- Q.33 Explain parison swell.
- Q.34 Explain importance of mould venting.
- Q.35 Explain various electrical electronics system in injection moulding machine.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the injection stretch blow moulding process with neat sketch.
- Q.37 Discuss :
- Injection moulding for thermosets.
 - Heating and cooling systems in Rotational moulding.
- Q.38 Explain the reciprocating screw type injection moulding process with neat sketch.

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5th Sem / Branch : Plastic Sub.: Plastic Processing Techniques - III

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In the _____ process, thermoplastic resins are melted and injected into a mold.
- Extrusion Moulding
 - Compression Moulding
 - Injection Moulding
 - Thermoforming
- Q.2 When the _____ freezes, melt can no longer exit the cavity.
- Gate
 - Runner
 - Sprue
 - Component
- Q.3 _____ prevents the mould from moving back when materials is injected in mould.
- Clamping Pressure
 - Holding Pressure
 - Packing Pressure
 - Holding Temperature
- Q.4 Distance between the stationary platen and the moving platen on a moulding press when the actuating system is fully retracted.
- Daylight
 - Red Light
 - Clamping
 - None of these

- Q.5 Type of clamping mechanism:
 a) Hydraulic b) Toggle
 c) Both A & B d) None of these
- Q.6 L/D ratio is _____.
 a) Length of barrel to Diameter of barrel
 b) Length of Extruder to Diameter of extruder
 c) Length of die to Diameter of die opening
 d) Length of the screw to Diameter of screw
- Q.7 _____ is a process of manufacturing hollow plastic parts.
 a) Extrusion moulding
 b) Injection moulding
 c) Blow moulding
 d) Compression moulding
- Q.8 The _____ gives the bottle its shape.
 a) Forced Air b) Water
 c) Oil d) Parison
- Q.9 Plastics which are moulded and reheated again to change their shapes are :
 a) Thermoset b) Thermoplastic
 c) Elastomer d) None of these
- Q.10 The _____ can be modified from its normal concentric tubular shape.
 a) Nozzle b) Sprue
 c) Parison d) Barrel

- ### SECTION-B
- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The cylindrical housing in which the screw rotates is known as _____.
 Q.12 Name two defects in injection moulding process.
 Q.13 A fully finished, closed tolerance container with no scrap can be produced by _____ process.
 Q.14 Parison thickness can be modified in the lengthwise direction using _____.
 Q.15 Give two types of blow moulding process.
 Q.16 The prominent inhomogeneous snake like strands on the surface of molding is known as _____.
 Q.17 Define compression ratio in injection moulding.
 Q.18 Name two defects of blow moulding.
 Q.19 Name two products made by rotational moulding.
 Q.20 _____ is equal to Hoop ratio times axial ratio.

- ### SECTION-C
- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Name different types of rotational moulding machines. Explain any one in short.
 Q.22 Explain blow moulding for irregular shapes.
 Q.23 Discuss selection criteria for injection moulding machine.
 Q.24 State basic principle of rotational moulding machine.
 Q.25 Draw injection mould cycle.
 Q.26 Distinguish between shear rate & injection pressure.