

- Q.26 Why hopper cooling is used in Plastic Processing Machinery.
- Q.27 Which type of Blow Moulding technique is used to make irregular shape products. Justify your answer.
- Q.28 Write the any three process parameters of injection moulding process.
- Q.29 Define the terms
a) Shot Weight b) Shot Capacity
- Q.30 What is parison programming. How is it achieved
- Q.31 Write the expression to calculate the Clamping Tonnage of Injection Moulding Machine. Write the units of each term involved.
- Q.32 Write down the steps involved to get two layered product using Rotational Moulding Process
- Q.33 Write the start up procedure of injection moulding machine
- Q.34 How will you control the wall thickness of product in IBM process
- Q.35 Write down any five merits and demerits of Blow moulding process over Rotational moulding Process.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Write down five parameters to specify Injection Moulding Machine. Give the definition of each parameter.
- Q.37 Write down any five faults and their remedies in blow moulding process.
- Q.38 Write down the process of Rotational Moulding Process to get a single walled product

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5th Sem./ Branch : Plastics Technology Subject:- Plastics Processing Techniques- III

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The value of MFI for Plastics material used in Injection moulding Process should be
a) >1 b) >2
c) >4 d) >5
- Q.2 Parison is the term used in
a) Injection Moulding
b) Compression Moulding
c) Injection Blow moulding
d) Extrusion Blow moulding
- Q.3 The value of MFI of the Plastics material to used in Rotational Moulding should be
a) <1 b) >1
c) >2 d) >3
- Q.4 Stress free water tanks are made by which of following processing technique
a) Injection Moulding
b) Compression Moulding
c) Blow Moulding
d) Rotational Moulding

- Q.5 Screen pack is used with which of following process
- Injection Moulding
 - Compression Moulding
 - Extrusion
 - Rotational Moulding
- Q.6 Based upon which of following material injection Moulding machine is designed
- PE
 - PVC
 - PS
 - PP
- Q.7 The most common form of material used in Rotational moulding process is
- Granular
 - Power
 - Liquid
 - Fluid
- Q.8 Preform is the term used with which of following process
- Injection moulding
 - Compression moulding
 - Extrusion Blow moulding
 - Injection Blow moulding
- Q.9 The time for which the material sits in barrel between cycles is called
- Residence Time
 - Down Time
 - Wait Time
 - Cycle Time
- Q.10 The most commonly used plastics material for making thin walled single use water bottles is
- PE
 - PET
 - PBT
 - PVC

SECTION-B

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

- Q.11 Expand the term ISBN.
- Q.12 Define the term processing.
- Q.13 Define the term parison.
- Q.14 Define the term charges size w.r.t. Rotational moulding.
- Q.15 Define the term Preform.
- Q.16 Define the term Flash.
- Q.17 Define the term Short Shot.
- Q.18 Blow moulding process is used to make which type of products.
- Q.19 Define the term wall thickness w.r.t. plastics products
- Q.20 Expand the term SSE.

SECTION-C

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

- Q.21 What is the significance of screw in Injection moulding process.
- Q.22 With a neat and labelled sketch, write down the process of reciprocating screw Blow Moulding Process.
- Q.23 How will you select charge in rotational moulding process.
- Q.24 What is the significance of Venting in blow moulding Process Write any one technique of mould venting in Blow Moulds.
- Q.25 What is the meaning of Manual Process. Semi automatic process and fully automatic process.