

- Q.26 Why hopper cooling is used in Plastic Processing Machinary.

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 te 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 be 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 the following processing technique  
a) Injection Moulding  
b) Compression Moulding  
c) Blow Moulding  
d) Rotational Moulding

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

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## 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.

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