

- Q.27 Explain injection moulding of the thermosets.

Q.28 Why vents are used in moulds. Give the significance of vents.

Q.29 Define the term

a) Hopper b) Barrel

Q.30 Define the terms:

a) Injection rate b) Plastication capacity

Q.31 Distinguish between shear rate & injection pressure.

Q.32 State four defects in Rotational moulding process and discuss its causes and remedies.

Q.33 State advantages of Hydraulic clamping system.

Q.34 Draw neat Sketch of Hand injection Moulding machine.

Q.35 Write the start up and shut down procedure of injection moulding machine.

No. of Printed Pages : 4
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**5th Sem. / Plastic
Subject : Plastic Processing Techniques-III**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Torpedo is used in which of following machine

 - Hand injection moulding machine
 - Reciprocating screw type injection mould machine
 - Compression moulding press
 - Transfer moulding machine

Q.2 For which of following process dies are used.

 - Injection moulding
 - Extrusion
 - Rotational moulding
 - Compression moulding

Q.3 Most common plastics material used in rotational moulding process is.

 - PVC
 - PP
 - PE
 - PS

Q.4 Incorporate of Metal insert during injection moulding is _____.

 - Possible
 - Can't say
 - Not possible
 - None of these

- Q.5 Plastic which are molded and reheated again to change their shapes are :
 a) Thermoset b) Thermoplastic
 c) Elastomer d) None of these
- Q.6 Purpose of Dehumidifier
 a) To melt material b) To clean material
 c) To remove moisture d) All the above
- Q.7 The reason for short shot in injection moulding is _____.
 a) Insufficient charging of material
 b) Low injection pressure
 c) Low injection speed
 d) All of these
- Q.8 Dimensional distortion in a plastic object after moulding is known as _____.
 a) Slippage b) Flash
 c) Warpage d) Leakage
- Q.9 Screen pack is used with which of following process
 a) Injection Moulding b) Compression Moulding
 c) Extrusion d) Rotational Moulding
- Q.10 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

Section-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define Day-Light of mould.
 Q.12 Give four defects of rotational moulding.
 Q.13 L/D stands for _____.
 Q.14 Injection moulding is a _____ (continuous/batch) process.
 Q.15 Give two applications of rotational moulding.
 Q.16 Define mould shrinkage.
 Q.17 What is blow up ratio?
 Q.18 Define pre-foam.
 Q.19 Suggest two remedies for excess flash.
 Q.20 Define Parison.
 Q.21 Name two important process variables for blow moulding.
 Q.22 Explain function of metering zone in IMM.

Section-C

- Note:** Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)
- Q.21 Discuss blow moulding of irregular shapes.
 Q.22 Explain application of rotational moulding.
 Q.23 Explain Extrusion blow moulding process.
 Q.24 Discuss the selection criterial for injection moulding machine.
 Q.25 Explain principle of rotational moulding.
 Q.26 Discuss troubleshooting of Injection moulding.