

- Q.29 Define w.r.t. injection moulding machine
- Clamping tonnage
 - Injection rate
- Q.30 With a neat sketch, write any one method of venting in blow moulds.
- Q.31 What is short shot give its causes and remedies.
- Q.32 In which blow moulding process both moulds and dies are used. (T/F)
- Q.33 What is pulverization of plastics materials. Give its two advantages.
- Q.34 Define injection rate and injection pressure. How they affect each other.
- Q.35 How cooling cycle is accomplished in rotomoulding process.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 With a neat sketch and labelled diagram, write the all steps involved in injection moulding of thermosets.
- Q.37 What is parison programming, what is its need, draw a neat sketch to for parison programming.
- Q.38
- Can thermoset plastics materials be used in blow moulding. Justify your answer.
 - Write the shut down procedure of injection moulding machine.

No. of Printed Pages : 4
Roll No.

182252

5th Sem / Plastic Subject:- Plastic Processing Techniques - III

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The injection moulding machine is designed based upon which material
- PE
 - PS
 - PVC
 - PMMA
- Q.2 Which process gives stress free product.
- Injection moulding
 - Compression moulding
 - Blow moulding
 - Rotational moulding
- Q.3 Thermoset can be processed using
- Injection moulding process
 - Compression moulding process
 - Transfer moulding process
 - All of above
- Q.4 Reciprocating screw method uses
- Mould
 - Die
 - Both a & b
 - None of above
- Q.5 Blow moulding process is used to make
- Hollow product
 - Solid product
 - Both a & b
 - None of above

- Q.6 Which process is used to make foam insulated water tanks.
 a) Injection moulding
 b) Injection blow moulding
 c) Rotomoulding
 d) Extrusion blow moulding
- Q.7 PVC is
 a) Thermally stable b) Thermally unstable
 c) Can't say d) None of above
- Q.8 The screw L/D in injection moulding machine as compare to extruder is
 a) High b) Low
 c) can't say d) None of above
- Q.9 Which of the following process can form irregular shaped hollow products.
 a) Injection blow moulding
 b) Extrusion blow moulding
 c) Injection moulding
 d) Rotomoulding
- Q.10 What is the Tg value of material to be used in rotomoulding.
 a) ≤ 1 b) ≤ 2
 c) ≤ 3 d) ≤ 4

SECTION-B

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

- Q.11 Define plastics processing
- Q.12 Write a material which requires heated oil for cooling.
- Q.13 Expand the term EBM.

- Q.14 Thermoset material can be used in blow moulding process.(T/F)
- Q.15 What is the function of band heaters in Injection moulding machine.
- Q.16 What is mould clamping.
- Q.17 Define barrel.
- Q.18 Foamed products can be made using rotomoulding process. (T/F)
- Q.19 Define nozzle.
- Q.20 Define thermoset material.

SECTION-C

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

- Q.21 Write down the start up procedure for injection moulding machine.
- Q.22 Define daylight of injection moulding machine. Give and define its types also.
- Q.23 Write reciprocating screw method of blow moulding Technique.
- Q.24 How will you calculate the charge required for a given product using rotomoulding technique.
- Q.25 Define shot weight and shot capacity.
- Q.26 Write rotating table method of extrusion blow moulding.
- Q.27 Do heated moulds are used to process thermoplastics materials in injection moulding process.
- Q.28 How will you control the wall thickness in the case of injection blow moulding process