

- Q.27 What is back pressure? What is its significance?
- Q.28 Give any two faults, their causes and remedies in rotomoulding process.
- Q.29 Write the formula to calculate tonnage of an injection moulding machine for a shallow product.
- Q.30 What is parrison programming? Why it is required?
- Q.31 Define and give difference between line pressure and injection pressure.
- Q.32 Write two defects in blow moulding product. Give their causes and remedies.
- Q.33 How multiwalled product is made by using rotomoulding machine?
- Q.34 What do you mean by optimization of cycle in injection moulding process?
- Q.35 How heating cycle is accomplished in injection moulding machine?

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Define any five faults, give their causes and remedies in injection moulding process.
- Q.37 Compare any three parameters and properties of hollow product. Taking injection moulding, Blow moulding and rotational moulding as their manufacturing process.
- Q.38 Write a stepwise procedure to form bottles using injection blow moulding. Write down the names of all machines involved.

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No. of Printed Pages : 4  
Roll No. ....

182252

#### 5th Sem. / Plastic Technology

#### Subject:- Plastic Processing Techniques - III

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Shot capacity as compare to shot weight
- Should be equal
  - Should be equal or more than
  - Should be less than
  - Both a & b
- Q.2 Rotomolding technique produces
- Highly stressed products
  - Low stress products
  - Almost stress free product
  - None of above
- Q.3 Injection blow moulding process uses
- Die
  - Mould
  - Both die and mould
  - None of above
- Q.4 If we increase melt temperature in injection moulding machine, then they required injection pressure
- increases
  - decreases
  - remains same
  - none of above

(1) 182252

- Q.5 Which method is used to make deep and big sized hollow moulding?
- Injection moulding
  - Compression moulding
  - Blow moulding
  - Rotational moulding
- Q.6 Parison is the term used in
- Injection blow moulding
  - Extrusion blow moulding
  - Rotational moulding
  - All of above
- Q.7 Hopper throat should be kept
- Cool
  - Heated
  - Insulated
  - None of above
- Q.8 The compression ratio of screws for thermoset materials should be
- 1:1
  - 2.5:1
  - 4.5:1
  - 5:1
- Q.9 Which type of water tanks are desirable
- Highly stressed
  - Mildly stressed
  - Almost stress free
  - None of above
- Q.10 The L/D ratio of screw for injection moulding process is normally upto
- 22:1
  - 16:1
  - 36:1
  - 30:1

(2)

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## SECTION-B

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

- Q.11 Define process.
- Q.12 Why plastics materials are preheated before processing?
- Q.13 Expand the term IBM.
- Q.14 Can round shape hollow products be made by rotomoulding?
- Q.15 Expand the term PLC.
- Q.16 Dies are used in injection moulding process.
- Q.17 Expand the term CNC.
- Q.18 Thermoset materials can be processed by rotomoulding. (T/F)
- Q.19 Define screw.
- Q.20 Define hopper.

## SECTION-C

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

- Q.21 Define shot weight and shot capacity.
- Q.22 Write down step by step procedure to shut down injection moulding machine.
- Q.23 What is difference between parison and perform? Define each also.
- Q.24 How will you calculate the charge required for a given product using rotational moulding machine?
- Q.25 What is sagging of parison? How is it controlled?
- Q.26 Write shuttle method of Extrusion blow moulding.

(3)

182252