

- Q.27 Give two advantages with reasons of transfer moulding over compression moulding.
- Q.28 Can themoset be used in thermoforming. Justify your answer.
- Q.29 With ingredients used, write down a note on resin system used in FRP industry.
- Q.30 How compression mould are commonly heated. Justify your answer.
- Q.31 Write the cell casting technique for PMMA
- Q.32 Write any five materials with properties of any two, which are used in thermoforming process.
- Q.33 With a neat sketch, write down the process of vaccum bag moulding.
- Q.34 What is multidaylight compression moulding machine. what are its advantages
- Q.35 Write steps involved in plug assist vaccum forming technique

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 With a neat and labelled sketch, write the process of Pultrusion.
- Q.37 Write a note on
- Bulk factor
  - DMC
  - Preheating of materials.
- Q.38 With a neat and labelled diagram write down the process of Vaccum metallisation.

No. of Printed Pages : 4  
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### 4th Sem / Plastic Subject:- Plastic Processing Techniques - II

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Pot and plunger type transfer moulding process requires conventional compression moulding press.
- True
  - False
  - Depends
  - None of above
- Q.2 Which of the following processing techniques is accomplished by deforming the plastic in rubbery state
- Injection Moulding
  - Compression Moulding
  - Calendering
  - Thermoforming
- Q.3 Which of the following product can not be made by Compression moulding process
- Bowl
  - Plate
  - Bottle
  - All of above
- Q.4 Pultrusion process is used to process
- Thermoplastics
  - Thermosets
  - Rubbers
  - FRP

- Q.5 Which of the following process give products of highest clarity
- Straight vacuum forming
  - Straight pressure forming
  - Free forming
  - Plug assist vacuum forming
- Q.6 Casting is
- Low pressure process
  - No pressure press
  - High pressure process
  - Both a & b
- Q.7 In the term GRP, G stands for
- General
  - Gram
  - Glass
  - Gravity
- Q.8 Fibers are the polymeric materials, which have L/D ratio
- >1
  - >10
  - >100
  - None of above
- Q.9 Filament winding process is used to make
- Hollow products
  - Solid products
  - Blow article
  - None of above
- Q.10 In compression moulding, the term curing time stands for the time required to
- Crosslink the material
  - Solidify the material
  - Both a & b
  - Neither a nor b

## SECTION-B

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

- Q.11 Define Breathing.
- Q.12 Define pot.
- Q.13 Nylon can be thermoformed. (T/F)
- Q.14 Define resin.
- Q.15 Define casting.
- Q.16 Why drilling process is used.
- Q.17 Which material is used in cell casting process.
- Q.18 Why electroplating is used in plastics industry.
- Q.19 Define clamping tonnage
- Q.20 Define gate

## SECTION-C

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

- Q.21 With a neat sketch write down the free forming process.
- Q.22 Write & define two factors which make machining of plastics, difficult than the machining of metals.
- Q.23 Write the steps involved in filament winding process.
- Q.24 With a neat diagram write the process of spin welding
- Q.25 With a neat diagram write the process of spin welding.
- Q.26 How feed size and mould temperature affects product properties in Compression moulding technique.