

- 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 vacuum 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.

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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
a) Straight vacuum forming
b) Straight pressure forming
c) Free forming
d) Plug assist vacuum forming
- Q6 Casting is
a) Low pressure process
b) No pressure press
c) High pressure process
d) Both a & b
- Q.7 In the term GRP, G stands for
a) General b) Gram
c) Glass d) Gravity
- Q8 Fibers are the polymeric materials, which have L/D ratio
a) >1 b) >10
c) >100 d) None of above
- Q.9 Filament winding process is used to make
a) Hollow products b) Solid products
c) Blow article d) None of above
- Q.10 In compression moulding, the term curing time stands for the time required to
a) Crosslink the material
b) Solidify the material
c) Both a & b
d) 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.